STIC-Biotech/ChemLib

From: Sent: To:

174171

Russel, Jeffrey Wednesday, December 14, 2005 9:09 AM STIC-Biotech/ChemLib Database Search Request, Serial Number: 10/789,494

Subject:	Database Search	Request, Serial Number: 10/789,494	1 品品品
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	isser (ICIOOO)		
Art Unit: 1654			
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62785			- acy
Office Location	1:	<i>N</i>	
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Phone_Number:		U	
571-272 <b>-</b> 09	169	1	2-20-2005
Mailbox Number:		1	1-20
REM 3C18			
Case serial num	nber:		
10/789,494			
Class / Subclas			
	55 (65).		
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Earliest Priori	ity filing Dat	.e:	
NA			
Format preferre	ed for results	3 <b>:</b>	
Diskette	_		
Search Topic Ir	nformation:		
		S:3, 7, and 8 in the U	
sequence databa	ases (pending,	published, and issued	) and in
Geneseq/Uniprot	/Pir. Thank	you.	
Special Instruc			
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			**********
*******		**********	
Searcher:		Type of Search NA# AA#:	Vendors and cost where applicable STN:
Searcher Phone: Date Searcher Picked up:		S/L: Oligomer:	DIALOG:
Date completed:			QUESTEL/ORBIT:
Searcher Prep Time:		Encode/Transl: Structure #:Text:	LEXIS/NEXIS:
Online Time:		Inventor: Litigation:	SEQUENCE SYSTEM:
			WWW/Internet:
			Other (Specify):

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:08:17; Search time 143.75 Seconds

(without alignments)

70.301 Million cell updates/sec

Title: US-10-789-494B-3

Perfect score: 109

Sequence: 1 AASSVSSASSRSYDYSRRNVRKN 23

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A\_Geneseq\_21:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp2000s:\*

4: geneseqp2001s:\*

5: geneseqp2002s:\*

6: geneseqp2003as:\*

7: geneseqp2003bs:\*

8: geneseqp2004s:\*

9: geneseqp2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

I	Result No.	Score	% Query Match	Length	DB	ID	Descripti	ion
	1	109	100.0	23	8	ADU51229	Adu51229	Domestic
	2	109	100.0	23	8	ADU51207	. Adu51207	Silkworm
	3	109	100.0	43	8	ADU51169	Adu51169	Domestic
	4	73	67.0	654	9	ADZ09405	Adz09405	Canine pa
	5	69	63.3	33	9	AEB30830	Aeb30830	Spider th
	6	50	45.9	271	3	AAY57719	Aay57719	Spinach r
	7	50	45.9	663	.2	AAW29150	Aaw29150	Dual-spec
	8	50	45.9	663	5	ABR52351	Abr52351	Protein r

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9
       50
            45.9
                    663 5 ADI17164
                                                      Adil7164 Murine NO
10
       50
            45.9
                   1059 4 ABB71639
                                                      Abb71639 Drosophil
11.
       50
            45.9
                   1059 8 ADS96722
                                                      Ads96722 Drosophil
12
       49
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                    383
                         2 AAR51059
                                                      Aar51059 Sequence
13
       48
            44.0
                    472
                         8
                            ADL27854
                                                      Adl27854 A vitis i
14
     47.5
                            ABR53678
            43.6
                    674
                         6
                                                      Abr53678 Protein s
15
     47.5
            43.6
                         7
                    674
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16
            42.2
                         4 AAU32566
       46
                    117
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17
            42.2
                    277
                         3 AAG20058
       46
                                                      Aaq20058 Arabidops
18
            42.2
                    278 3 AAG20057
       46
                                                      Aag20057 Arabidops
19
                    359 3 AAG20056
       46
            42.2
                                                      Aag20056 Arabidops
                     50 4 ABB22229
20
       45
            41.3
                                                      Abb22229 Protein #
21
       45
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                         4
                            AAM70055
                                                      Aam70055 Human bon
22
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                     50 4 AAM57648
            41.3
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23
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                     50 4 ABG51748
                                                      Abq51748 Human liv
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                                                      Aam05532 Peptide #
                    50 5 ABG39686
25
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            41.3
                                                      Abg39686 Human pep
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                    146
                         7
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                                                      Adg74666 Human kin
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                         7
       45
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                            ADG74665
                                                      Adg74665 Human kin
28
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            41.3
                    317
                         4
                            ABG24218
                                                      Abg24218 Novel hum
29
       45
                         7
            41.3
                    388
                            ADC15643
                                                      Adc15643 E. intest
30
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            41.3
                    455 8 ABM83064
                                                      Abm83064 Human dia
31
       45
            41.3
                    455 8 ABM83061
                                                      Abm83061 Human dia
32
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                    486 7 ADE58782
                                                      Ade58782 Human Pro
33
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            41.3
                    486 8 ADI82554
                                                      Adi82554 Human mod
34
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            41.3
                    486
                         8 ADR97409
                                                      Adr97409 Human PPP
35
       45
            41.3
                    486 9 ADX08183
                                                      Adx08183 Cyclin-de
36
       45
            41.3
                    487 8 ABM83063
                                                      Abm83063 Human dia
37
       45
            41.3
                    487 8 ABM83062
                                                     Abm83062 Human dia
38
       45
            41.3
                    892 7 ADD18910
                                                     Add18910 Human dis
39
       45
            41.3
                    916 7 ADB64143
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40
       45
            41.3
                   1002
                         7
                            ADC15645
                                                      Adc15645 E. intest
41
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42
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                                                      Ado17160 Novel exp
43
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            40.8
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                                                     Ado17159 Novel exp
44
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            40.4
                    91 5 ADK34170
                                                     Adk34170 Novel hum
45
       44
            40.4
                    215 8 ADH75876
                                                      Adh75876 Lucerne C
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RESULT 1
ADU51229
     ADU51229 standard; peptide; 23 AA.
XX
AC
     ADU51229;
XX
DT
     24-FEB-2005 (first entry)
XX
DE
     Domestic silkworm fibroin H-chain peptide fragment 14.
XX
KW
     vulnerary; cell proliferation; wound healing; cell adhesion; cosmetics;
KW
     cell culture; fibroin.
XX
OS
     Bombyx mori.
XX
```

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PN
     JP2004339189-A.
XX
PD
     02-DEC-2004.
XX
     04-DEC-2003; 2003JP-00406608.
PF
XX
PR
     28-FEB-2003; 2003JP-00055048.
XX
PΑ
     (DOKU-) DOKURITSU GYOSEI HOJIN NOGYO SEIBUTSU SH.
PΑ
     (TSUB/) TSUBOUCHI K.
XX
     WPI; 2004-827614/82.
DR
XX
РΤ
     New peptide having excellent cell growth promoting activity, for use as a
     cell growth promoter, cell adhesion agent, wound healing-promoting agent,
PT
PT
     cosmetic and cell culture base material.
XX
PS
     Example 3; Page; 27pp; Japanese.
XX
CC
     The invention relates to a novel peptide having excellent cell growth
CC
     promoting activity. The peptide of the invention demonstrates vulnerary
CC
     activity and may be utilised as a cell growth promoter, cell adhesion
CC
     agent, wound healing-promoting agent or cosmetic and cell culture base
     material. The current sequence is that of a domestic silkworm fibroin H-
CC
CC
     chain peptide fragment of the invention which is described as being
CC
     amorphous.
XX
SO
     Sequence 23 AA;
  Query Match
                          100.0%; Score 109; DB 8; Length 23;
  Best Local Similarity 100.0%; Pred. No. 3.1e-10;
 Matches
          23; Conservative
                               0; Mismatches
                                                 0; Indels
                                                                0; Gaps
                                                                            0;
Qу
            1 AASSVSSASSRSYDYSRRNVRKN 23
              Db
            1 AASSVSSASSRSYDYSRRNVRKN 23
RESULT 4
ADZ09405
ID
    ADZ09405 standard; protein; 654 AA.
XX
AC
    ADZ09405;
XX
DT
     30-JUN-2005 (first entry)
XX
DE
    Canine parvovirus VP2 protein Seq 8.
XX
KW
    vaccine; antigen; VP2; silk; immune stimulation; antibody production;
KW
    virucide; antiparasitic; cytostatic; immunostimulant.
XX
OS
    Canine parvovirus.
XX
PN
    JP2005097229-A.
XX
PD
   14-APR-2005.
```

```
XX
PF
     03-DEC-2003; 2003JP-00405124.
XX
     04-DEC-2002; 2002JP-00352084.
PR
     05-SEP-2003; 2003JP-00314808.
PR
XX
PΑ
     (TORA ) TORAY IND INC.
XX
DR
     WPI; 2005-299766/31.
     N-PSDB: ADZ09400.
DR
XX
PT
     Vaccine for preventing infection caused by virus, parasite, and tumor,
PT
     comprises antigenic protein and component derived from silk thread.
XX
PS
     Disclosure; SEQ ID NO 12; 21pp; Japanese.
XX
CC
     This invention relates to a novel vaccine. Specifically, it refers to a
CC
     vaccine that comprises an antigenic protein, in particular the canine-
CC
     parvovirus VP2 protein and a component derived from silk thread. The
CC
     present invention describes a recombinant silkworm engineered to produce
CC
     this antigenic protein in a silk gland or silk thread, whereby the gene
CC
     encoding the antigenic protein has been transduced into a chromosome
CC
     using a vector to transfer this foreign gene. Administration of the
CC
     vaccine activates the immune response and so induces production of
CC
     antibodies against the antigenic canine-parvovirus VP2 protein in the
CC
     blood of an animal. Note that the silk thread containing this antigenic
CC
     protein is pulverized to form particles or is solubilized, hence the
CC
     vaccine can be obtained with high purity in a cost effective manner.
CC
     Accordingly, compositions derived thereof exhibit virucide,
CC
     antiparasitic, cytostatic and immunostimulant activities. This
CC
     polypeptide sequence is the canine parvovirus VP2 protein of the
CC
     invention. NOTE: This protein is given as an embedded protein the
CC
     sequence listing and is not further referred to in the specification.
XX
SO
     Sequence 654 AA;
  Query Match
                          67.0%; Score 73; DB 9; Length 654;
  Best Local Similarity
                          100.0%; Pred. No. 0.0097;
  Matches
          14; Conservative 0; Mismatches
                                                0; Indels
                                                                 0; Gaps
                                                                             0;
Qу
           10 SRSYDYSRRNVRKN 23
              Db
          621 SRSYDYSRRNVRKN 634
RESULT 5
AEB30830
ID
    AEB30830 standard; peptide; 33 AA.
XX
AC
    AEB30830;
XX
DT
    06-OCT-2005 (first entry)
XX
DE
    Spider thread peptide #1.
XX
KW
    Silk; spider thread protein.
XX
```

```
OS
     Bombyx mori.
XX
PN
     WO2005068495-A1.
ХХ
PD
     28-JUL-2005.
XX
PF
     12-JAN-2005; 2005WO-JP000619.
XX
PR
     13-JAN-2004; 2004JP-00005489.
XX
PA
     (TORA ) TORAY IND INC.
     (DUPO ) DU PONT DE NEMOURS & CO E I.
PΑ
XX
PΙ
     Hiramatsu S, Moriyama H, Asaoka R, Morita K, Tanaka T, Yamada K;
PΙ
     Obrien JP, Fahnestock SR;
XX
DR
     WPI; 2005-522809/53.
XX
PΤ
     Silk thread useful for producing textile fabric and in aeronautical
PΤ
     navigation, space exploration, has spider thread protein, produced by
PТ
     transducing gene encoding spider thread protein to silkworm having
PΤ
     fibroin H-chain gene.
XX
PS
     Claim 16; SEQ ID NO 3; 48pp; Japanese.
XX
CC
     The invention relates to a silk thread comprising a spider thread
CC
     protein, produced by a transducing gene encoding spider thread protein in
CC
     a silkworm having a fibroin H-chain gene, without damaging the silkworm
CC
     fibroin H-chain gene. The invention also relates to producing silk thread
     involving producing a transgenic silkworm and extracting silk thread from
CC
CC
     the transgenic silkworm. The silk thread is useful for producing a
CC
     textile fabric and also useful in aeronautical navigation, space
CC
     exploration, to produce clothing, towrope and medical thread, etc. The
     silk thread has high strength and elongation property. This sequence
CC
CC
     represents a spider thread peptide of the invention.
XX
SO
    Sequence 33 AA;
 Query Match
                          63.3%; Score 69; DB 9; Length 33;
 Best Local Similarity
                         100.0%; Pred. No. 0.0013;
           13; Conservative 0; Mismatches 0; Indels
                                                                0; Gaps
                                                                            0;
Qу
          11 RSYDYSRRNVRKN 23
              1 RSYDYSRRNVRKN 13
Search completed: December 16, 2005, 23:46:08
Job time : 146.75 secs
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GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:40:43; Search time 34.9107 Seconds

(without alignments)

54.469 Million cell updates/sec

Title:

US-10-789-494B-3

Perfect score: 109

Sequence:

1 AASSVSSASSRSYDYSRRNVRKN 23

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched:

572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters:

572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*

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3: /cgn2\_6/ptodata/1/iaa/H COMB.pep:\*

4: /cgn2 6/ptodata/1/iaa/PCTUS COMB.pep:\*

5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*

6: /cgn2 6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	50	45.9	434	2	US-09-270 <b>-</b> 767-61286	Sequence 61286, A
2	50	45.9	1059	2	US-09-270-767-45764	Sequence 45764, A
3	46.5	42.7	93	2	US-09-270-767-60930	Sequence 60930, A
4	46.5	42.7	427	2	US-09-270-767-45426	Sequence 45426, A
5	45	41.3	908	2	US-09-949-016-7580	Sequence 7580, Ap
6	45	41.3	916	2	US-10-104-047-2297	Sequence 2297, Ap
7	44	40.4	490	2	US-09-976 <b>-</b> 594-314	Sequence 314, App
8	44	40.4	490	2	US-09-905-999-23	Sequence 23, Appl
9	44	40.4	508	2	US-09-949-016-8519	Sequence 8519, Ap
10	44	40.4	508	2	US-09-949-016-8520	Sequence 8520, Ap
11	44	40.4	638	2	US-10-104-047-2626	Sequence 2626, Ap
12	43.5	39.9	235	2	US-09-248-796A-24586	Sequence 24586, A
13	43	39.4	172	2	US-09-252-991A-20172	Sequence 20172, A
14	43	39.4	223	2	US-09-270-767-38042	Sequence 38042, A
15	43	39.4	223	2	US-09-270-767-53259	Sequence 53259, A
16	42	38.5	141	2	US-09-252-991A-26722	Sequence 26722, A
17	42	38.5	168	2	US-09-107-532A-3748	Sequence 3748, Ap
18	42	38.5	272	2	US-09-107-532A-6938	Sequence 6938, Ap

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                                                        Sequence 17, Appl
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                    148 2 US-09-252-991A-28329
                                                        Sequence 28329, A
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RESULT 1
US-09-270-767-61286
; Sequence 61286, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
   APPLICANT: Homburger et al.
   TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
   FILE REFERENCE: File Reference: 7326-094
   CURRENT APPLICATION NUMBER: US/09/270,767
   CURRENT FILING DATE: 1999-03-17
   NUMBER OF SEO ID NOS: 62517
   SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 61286
    LENGTH: 434
    TYPE: PRT
    ORGANISM: Drosophila melanogaster
US-09-270-767-61286
  Query Match
                          45.9%;
                                  Score 50; DB 2;
                                                    Length 434;
  Best Local Similarity
                          45.5%;
                                  Pred. No. 8.7;
  Matches
            10; Conservative
                                 6; Mismatches
                                                   6; Indels
                                                                 0;
                                                                     Gaps
                                                                              0:
Qу
            1 AASSVSSASSRSYDYSRRNVRK 22
              :|:| || :: | |||:|:
Db
         360 SANSKSSGGNKMSDVSRRNIRE 381
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Search completed: December 17, 2005, 00:12:07

Job time : 35.9107 secs

GenCore version 5.1.6

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OM protein - protein search, using sw model

Run on: December 16, 2005, 23:52:28; Search time 121.571 Seconds

(without alignments)

79.049 Million cell updates/sec

Title: US-10-789-494B-3

Perfect score: 109

Sequence: 1 AASSVSSASSRSYDYSRRNVRKN 23

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:\*

1: /cgn2 6/ptodata/1/pubpaa/US07 PUBCOMB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*

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4: /cgn2\_6/ptodata/1/pubpaa/US10A PUBCOMB.pep:\*

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6: /cgn2 6/ptodata/1/pubpaa/US11 PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length DB	3	ID	Description
1	109	100.0	23 5		US-10-789-494B-3	Sequence 3, Appli
2					<del>-</del>	
2	109	100.0	23 5	)	US-10-789-494B-59	Sequence 59, Appl
3	109	100.0	43 5	,	US-10-789-494B-21	Sequence 21, Appl
4	50	45.9	663 4		US-10-072-012-700	Sequence 700, App
5	50	45.9	663 5		US-10-029-345A-40	Sequence 40, Appl

6	50	45.9	1059	6	US-11-097-143-41709	Sequence	41709, A
7	48	44.0	1030	4	US-10-437-963-158754	Sequence	158754,
8	48	44.0	1507	4	US-10-425-115-342056	Sequence	
9	47	43.1	181	4	US-10-767-701-45386	_	45386, A
10	47	43.1	374	4	US-10-437-963-115405	Sequence	115405,
11	46	42.2	459	4	US-10-437-963-169698	Sequence	169698,
12	45	41.3	50	3	US-09-864-761-37527	Sequence	37527, A
13	45	41.3	208	4	US-10-437-963-184293	Sequence	184293,
14	45	41.3	211	4	US-10-437-963-159894	Sequence	159894,
15	45	41.3	317	5	US-10-450-763-54577	Sequence	54577, A
16	45	41.3	344	4	US-10-131-410-177		177, App
17	45	41.3	458	4	US-10-437-963-184282	Sequence	184282,
18	45	41.3	916	4	US-10-104-047-2297	Sequence	2297, Ap
19	45	41.3	947	5	US-10-732-923-4287	Sequence	4287, Ap
20	44.5	40.8	177	4	US-10-425-115-362590	Sequence	362590,
21	44	40.4	123	4	US-10-767-701-43958	Sequence	43958, A
22	44	40.4	193	5	US-10-732-923-3690	Sequence	3690, Ap
23	44	40.4	215	4	US-10-421-138A-316		316, App
24	44	40.4	286	3	US-09-864-761-46689	Sequence	46689, A
25	44	40.4	326	4	US-10-767-701-43959	Sequence	43959, A
26	44	40.4	357	4	US-10-437-963-151972	Sequence	151972,
27	44	40.4	436	4	US-10-282-122A-65292	Sequence	65292, A
28	44	40.4	490	3	US-09-905-999-23	Sequence	23, Appl
29	44	40.4	490	4	US-10-267-502 <b>-</b> 354	Sequence	354, App
30	44	40.4	490	5	US-10-825-177-23	Sequence	23, Appl
31	44	40.4	490	6	US-11-029-470-10	Sequence	10, Appl
32	44	40.4	534	6	US-11-097-143-17595	Sequence	17595, A
33	44	40.4	638	4	US-10-104-047-2626	Sequence	2626, Ap
34	44	40.4	1987	4	US-10-437-963-160584	Sequence	160584,
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36	43.5	39.9	1143	4	US-10-032-585-7789	Sequence	7789, Ap
37	43	39.4	129	4	US-10-425-115-242444	Sequence	242444,
38	43	39.4	166	4	US-10-424-599-214039	Sequence	214039,
39	43	39.4	209	4	US-10-767-701-39778	Sequence	39778, A
40	43	39.4	222	4	US-10-424-599-254434	Sequence	254434,
41	43	39.4	222	5	US-10-739-930-8688	Sequence	8688, Ap
42	43	39.4	222	5	US-10-732-923-16338	Sequence	16338, A
43	43	39.4	223	4	US-10-425-114-42487	Sequence	42487, A
44	43	39.4	223	5	US-10-732-923-16168		16168, A
45	43	39.4	223	5	US-10-732-923-16337	Sequence	16337, A

## RESULT 1

US-10-789-494B-3

- ; Sequence 3, Application US/10789494B
- ; Publication No. US20050143296A1
- ; GENERAL INFORMATION:
- ; APPLICANT: TSUBOUCHI, Kozo
- ; APPLICANT: YAMADA, Hiromi
- ; TITLE OF INVENTION: EXTRACTION AND UTILIZATION OF CELL
- ; TITLE OF INVENTION: GROWTH-PROMOTING PEPTIDES FROM SILK PROTEIN
- ; FILE REFERENCE: OPS 635
- ; CURRENT APPLICATION NUMBER: US/10/789,494B
- ; CURRENT FILING DATE: 2004-02-27

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; PRIOR APPLICATION NUMBER: JP 2003-55048
  PRIOR FILING DATE: 2003-02-28
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US-10-789-494B-3
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                         100.0%; Pred. No. 3.3e-09;
 Best Local Similarity
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                                                     Indels
                                                               0; Gaps
                                                                           0;
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Qу
             Db
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; Sequence 700, Application US/10072012
; Publication No. US20040033493A1
; GENERAL INFORMATION:
  APPLICANT: Tchernev, Velizar
  APPLICANT: Spytek, Kimberly
; APPLICANT: Zerhusen, Bryan
  APPLICANT: Patturajan, Meera
  APPLICANT: Shimkets, Richard
  APPLICANT: Li, Li
  APPLICANT: Gangolli, Esha
  APPLICANT: Padigaru, Muralidhara
  APPLICANT: Anderson, David W.
  APPLICANT: Rastelli, Luca
  APPLICANT: Miller, Charles E.
  APPLICANT: Gerlach, Valerie
  APPLICANT: Taupier Jr, Raymond J.
  APPLICANT: Gusev, Vladimir Y.
  APPLICANT: Colman, Steven D.
  APPLICANT: Wolenc, Adam R.
; APPLICANT: Pena, Carol E. A
  APPLICANT: Furtak, Katarzyna
  APPLICANT: Grosse, William M.
  APPLICANT: Alsobrook II, John P.
  APPLICANT: Lepley, Denise M.
  APPLICANT: Rieger, Daniel K.
  APPLICANT: Burgess, Catherine E.
  TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
  FILE REFERENCE: 21402-258
  CURRENT APPLICATION NUMBER: US/10/072,012
  CURRENT FILING DATE: 2002-01-31
  PRIOR APPLICATION NUMBER: 60/265,102
  PRIOR FILING DATE: 2001-01-30
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; PRIOR APPLICATION NUMBER: 60/265,412
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  PRIOR APPLICATION NUMBER: 60/265,395
  PRIOR FILING DATE: 2001-01-31
  PRIOR APPLICATION NUMBER: 60/266,406
  PRIOR FILING DATE: 2001-02-02
  PRIOR APPLICATION NUMBER: 60/266,767
  PRIOR FILING DATE: 2001-02-05
  PRIOR APPLICATION NUMBER: 60/267,057
  PRIOR FILING DATE: 2001-02-07
  PRIOR APPLICATION NUMBER: 60/266,975
   PRIOR FILING DATE: 2001-02-07
  PRIOR APPLICATION NUMBER: 60/267,459
  PRIOR FILING DATE: 2001-02-08
   Remaining Prior Application data removed - See File Wrapper or PALM.
   NUMBER OF SEQ ID NOS: 1391
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US-10-072-012-700
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RESULT 11
US-10-437-963-169698
; Sequence 169698, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT:
              Cao, Yongwei
              Wu, Wei
  APPLICANT:
              Boukharov, Andrey A.
  APPLICANT:
  APPLICANT:
              Barbazuk, Brad
  APPLICANT: Li, Ping
  TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules
Associated With
  TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
  FILE REFERENCE: 38-21(53221)B
  CURRENT APPLICATION NUMBER: US/10/437,963
  CURRENT FILING DATE: 2003-05-14
  NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 169698
  LENGTH: 459
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             9; Conservative
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                                                                             0;
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Qу
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Db
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Search completed: December 17, 2005, 00:17:32
Job time : 122.571 secs
                             GenCore version 5.1.6
                  Copyright (c) 1993 - 2005 Compugen Ltd.
OM protein - protein search, using sw model
                December 16, 2005, 23:53:24; Search time 6.16071 Seconds
Run on:
                                           (without alignments)
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Title:
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Perfect score: 109
Sequence:
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Searched:
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Total number of hits satisfying chosen parameters:
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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
                Maximum Match 100%
                Listing first 45 summaries
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                   /cqn2 6/ptodata/1/pubpaa/US06 NEW PUB.pep:*
               3: /cgn2 6/ptodata/1/pubpaa/US07 NEW PUB.pep:*
                4: /cgn2 6/ptodata/1/pubpaa/US08 NEW PUB.pep:*
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                   /cgn2 6/ptodata/1/pubpaa/US10 NEW PUB.pep:*
               7:
                   /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep:*
                   /cgn2_6/ptodata/1/pubpaa/US60 NEW PUB.pep:*
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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			- <b></b>			
1	44	40.4	436	6	US-10-467-657-4550	Sequence 4550, Ap
2	43	39.4	222	6	US-10-667-295 <b>-</b> 143	Sequence 143, App
3	39	35.8	131	6	US-10-667-295 <b>-</b> 37	Sequence 37, Appl
4	39	35.8	230	6	US-10-667-295-86	Sequence 86, Appl
5	39	35.8	277	6	US-10-667-295 <b>-</b> 85	Sequence 85, Appl
6	39	35.8	287	7	US-11-174-150-30	Sequence 30, Appl
7	39	35.8	483	6	US-10-632-150-48	Sequence 48, Appl
8	39	35.8	483	7	US-11-073-457-48	Sequence 48, Appl
9	39	35.8	483	7	US-11-073-460-48	Sequence 48, Appl
10	38.5	35.3	354	6	US-10-467-657-4352	Sequence 4352, Ap
1.1	38	34.9	152	6	US-10-957-569-38	Sequence 38, Appl
12	38	34.9	414	6	US-10-131-826A-418	Sequence 418, App
13	38	34.9	422	7	US-11-022-562-234	Sequence 234, App
14	37.5	34.4	477	7	US-11-089-551A-34	Sequence 34, Appl
15	37	33.9	227	7	US-11-170-653-27	Sequence 27, Appl
16	37	33.9	454	7	US-11-089-551A-35	Sequence 35, Appl
17	37	33.9	668	6	US-10-995-561-619	Sequence 619, App
18	37	33.9	691	6	US-10-995 <b>-</b> 561-617	Sequence 617, App
19	37	33.9	742	6	US-10-995-561-615	Sequence 615, App
20	37	33.9	742	6	US-10-995-561-618	Sequence 618, App
21	37	33.9	1448	6	US-10-485-517-212	Sequence 212, App
22	36	33.0	134	6	US-10-667-295-184	Sequence 184, App
23	36	33.0	245	6	US-10-131-826A-214	Sequence 214, App
24	36	33.0	306	6	US-10-793-626-382	Sequence 382, App
25	36	33.0	456	6	US-10-793-626-1190	Sequence 1190, Ap
26	36	33.0	1493	7	US-11-004-057-4	Sequence 4, Appli
27	36	33.0	2004	6	US-10-467-657-84	Sequence 84, Appl
28	36	33.0	2004	6	US-10-467-657-6322	Sequence 6322, Ap
29	35.5	32.6	371	6	US-10-467-657-1926	Sequence 1926, Ap
30	35.5	32.6	500	6	US-10-957-569-18	Sequence 18, Appl
31	35	32.1	67	6	US-10-467-657-5586	Sequence 5586, Ap
32	35	32.1	74	6	US-10-467-657-4748	Sequence 4748, Ap
33	35	32.1	205	7	US-11-093-746A-26	Sequence 26, Appl
34	35	32.1	235	6	US-10-793-626-948	Sequence 948, App
35	35	32.1	285	6	US-10-467-657-100	Sequence 100, App
36	35	32.1	297	6	US-10-467-657-7296	Sequence 7296, Ap
37	35	32.1	305	6	US-10-793-626-2062	Sequence 2062, Ap
38	35	32.1	353	7	US-11-060-029-23	Sequence 23, Appl
39	35	32.1	357	6	US-10-467-657-8540	Sequence 8540, Ap
40	35	32.1	366	7	US-11-000-463-410	Sequence 410, App
41	35	32.1	366	7	US-11-000-463-882	Sequence 882, App
42	35	32.1	386	6	US-10-858-730-236	Sequence 236, App
43	35	32.1	476	6	US-10-763-712A-50	Sequence 50, Appl
44	35	32.1	534	7	US-11-167-856-24	Sequence 24, Appl
45	35	32.1	856	6	US-10-467-657-8534	Sequence 8534, Ap

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RESULT 1
US-10-467-657-4550
; Sequence 4550, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
; APPLICANT: CHIRON SpA
 APPLICANT: FONTANA Maria Rita
 APPLICANT: PIZZA Mariagrazia
 APPLICANT: MASIGNANI Vega
  APPLICANT: MONACI Elisabetta
  TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
  FILE REFERENCE:
  CURRENT APPLICATION NUMBER: US/10/467,657
  CURRENT FILING DATE: 2003-08-11
; PRIOR APPLICATION NUMBER: GB-0103424.8
; PRIOR FILING DATE: 2001-02-12
 NUMBER OF SEQ ID NOS: 9218
  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 4550
   LENGTH: 436
   TYPE: PRT
   ORGANISM: Neisseria gonorrhoeae
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  Query Match
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 Best Local Similarity
                        39.1%; Pred. No. 6.8;
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                                                                          0;
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             332 AAAAKSNAGYKAYNQMRRFVKEN 354
Db
Search completed: December 17, 2005, 00:17:54
Job time : 7.16071 secs
                           GenCore version 5.1.6
                 Copyright (c) 1993 - 2005 Compugen Ltd.
OM protein - protein search, using sw model
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Run on: December 16, 2005, 23:33:32; Search time 23.8214 Seconds

(without alignments)

92.899 Million cell updates/sec

Title: US-10-789-494B-3

Perfect score: 109

Sequence: 1 AASSVSSASSRSYDYSRRNVRKN 23

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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1: pir1:\*
2: pir2:\*
3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		%			SOMMAKIES	
Result		Query				
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1	55	50.5	680	2	S52820	hypothetical prote
2	49	45.0	383	2	S39651	repB protein - Lac
3	47.5	43.6	674	2	S61181	hypothetical prote
4	47	43.1	766	2	G71437	probable resistanc
5	47	43.1	1041	2	C85189	disease resistance
6	47	43.1	1256	2	C71436	probable resistanc
7	46	42.2	386	2	T30320	replication protei
8	46	42.2	460	2	B45353	orf2 protein - app
9	46	42.2	684	2	T40319	hypothetical prote
10	45	41.3	94	2	A97140	phage related tran
11	45	41.3	381	2	T40341	hypothetical prote
12	45	41.3	486	2	I55449	gene PP2A protein
13	45	41.3	892	2	T09193	ataxin 7 - human
14	45	41.3	947	2	T03795	ornithine decarbox
15	45	41.3	1289	2	T00387	KIAA0622 protein -
16	45	41.3	1807	2	S03124	vitellogenin A2 pr
17	44.5	40.8	1677	2	T43021	vitellogenin precu
18	44	40.4	262	2	T14807	hypothetical prote
19	44	40.4	490	2	S53639	protein kinase clk
20	44	40.4	490	2	S70352	protein kinase clk
21	44	40.4	754	1	P1IV50	RNA-directed RNA p
22	44	40.4	1513	2	S45768	mitotic spindle pr
23	43	39.4	342	2	C84234	phosphate regulato
24	43	39.4	369	2	C88030	protein F46F5.10 [
25	43	39.4	382	2	T04260	hypothetical prote
26	43	39.4	405	2	C42094	bw3 protein - smut
27	43	39.4	602	2	S58336	probable membrane
28	43	39.4	695	2	T13648	mitosis initiation
29	43	39.4	1108	2	A96623	hypothetical prote
30	43	39.4	1383	2	C96723	hypothetical prote
31	43	39.4	1465	2	D86478	protein F1504.11 [
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33	42	38.5	133	2	B30902	probable membrane

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N; Alternate names: hypothetical protein LPZ7c; hypothetical protein YP9723.07c
C; Species: Saccharomyces cerevisiae
C;Date: 19-May-1995 #sequence revision 01-Sep-1995 #text change 09-Jul-2004
C; Accession: S52820; S59752
R; Pearson, D.; Bowman, S.
submitted to the EMBL Data Library, April 1995
A; Reference number: S52814
A; Accession: S52820
A; Molecule type: DNA
A; Residues: 1-680 < PEA>
A; Cross-references: UNIPROT:Q12188; UNIPARC:UPI000006B335; EMBL:Z48951;
NID:g762999; PID:g763006; MIPS:YPR007c
A; Experimental source: strain AB972
R; Wang, Y.; Ahmed, A.; Bussey, H.; Fortin, N.; Friesen, J.D.; Hall, J.; Storms,
R.K.; Vo, D.H.; Winnett, E.
submitted to the EMBL Data Library, July 1995
A; Description: The sequence of Saccharomyces cerevisiae chromosome XVI right
arm.
A; Reference number: S59746
A; Accession: S59752
A; Molecule type: DNA
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A; Cross-references: UNIPARC: UPI000006B335; EMBL: U31900; NID: q1276597;
PID:g939741; MIPS:YPR007c
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A; Gene: SGD: SPO69
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                                7; Mismatches
                                                    4; Indels
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Search completed: December 16, 2005, 23:53:14

Job time : 25.8214 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:33:02; Search time 147.036 Seconds

(without alignments)

110.362 Million cell updates/sec

Title: US-10-789-494B-3

Perfect score: 109

Sequence: 1 AASSVSSASSRSYDYSRRNVRKN 23

Scoring table: BLOSUM62

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Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 05.80:\*

1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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3	50	45.9	271	1	RRFC_SPIOL	P82231 spinacia ol
4	50	45.9	663	1	DUS8_MOUSE	009112 mus musculu
5	50	45.9	665	2	Q7TSZ9_MOUSE	Q7tsz9 mus musculu
6	50	45.9	1059	2	Q9VW51_DROME	Q9vw51 drosophila
7	50	45.9	1060	2	Q95VE6_DROME	Q95ve6 drosophila
8	49	45.0	158	2	Q8GPL9_METEX	Q8gpl9 methylobact
9	49	45.0	237	2	Q57W53_9TRYP	Q57w53 trypanosoma
10	49	45.0	341	2	Q54NX5_DICDI	Q54nx5 dictyosteli
11	49	45.0	351	2	Q6BL67_DEBHA	Q6b167 debaryomyce

49	45.0	383	2	Q07137_9LACT	Q07137 lactococcu	ıs
49	45.0	476	2	Q759N7_ASHGO	Q759n7 ashbya gos	S
49	45.0	820	2	Q4IP00_GIBZE	Q4ip00 gibberella	i
49	45.0	1362	2	Q611V7_CAEBR	Q611v7 caenorhabd	li
49	45.0	1695	2	Q4P3I9_USTMA	Q4p3i9 ustilago m	na
49	45.0	2303	2	Q4PF49_USTMA	Q4pf49 ustilago m	ıa
48	44.0	472	2	052491_AGRVI	052491 agrobacter	i
48	44.0	472	2	Q9X5L2_AGRVI	Q9x5l2 agrobacter	ì
48	44.0	654	2	Q4Z078_PLABE	Q4z078 plasmodium	1
48	44.0	679	1	UBC17_CAEEL	Q11076 caenorhabd	li
48	44.0	1030	2	Q8H037_ORYSA	Q8h037 oryza sati	v
48	44.0	1089	2	Q4QBW2_LEIMA	Q4qbw2 leishmania	ı
47.5	43.6	674	2	Q06629_YEAST	Q06629 saccharomy	′C
47	43.1	110	2	Q7TUE3_PROMP	Q7tue3 prochloroc	0:
47	43.1	157	2	Q8GW40_ARATH	Q8gw40 arabidopsi	S
47	43.1	306	2	Q99JI2_MOUSE	Q99ji2 mus muscul	u
47	43.1	393	2	Q8BNS4_MOUSE	Q8bns4 mus muscul	.u
47			2		Q4qai2 leishmania	Ĺ
47	43.1		2	Q8BSN1_MOUSE	Q8bsn1 mus muscul	.u
47	43.1		2	Q7RDC8_PLAYO	Q7rdc8 plasmodium	ı
47	43.1		2	<del>-</del>	O23536 arabidopsi	.s
47			2		Q8s4q0 arabidopsi	
47	43.1	1147	2	_	Q81843 arabidopsi	.s
47	43.1	1150	2 ·		Q50pt4 entamoeba	
			2		Q8ief5 plasmodium	
				<del>_</del>	-	
				_	Q7rfw3 plasmodium	1
					Q4fxz9 leishmania	ì
				<del>-</del>	Q5u926 norovirus	h
				<del></del>	Q8bz78 mus muscul	.u
	•				O54428 lactococcu	
46		386			Q48610 lactococcu	
46	42.2	386	2	Q9FB63_LACLA	Q9fb63 lactococcu	ıs
	49 49 49 49 48 48 48 48 48 47 47 47 47 47 47 47 47 47 47 47 47 47	49 45.0 49 45.0 49 45.0 49 45.0 48 44.0 48 44.0 48 44.0 48 44.0 48 44.0 48 44.0 47.5 43.6 47 43.1 47 43.1	49       45.0       476         49       45.0       1362         49       45.0       1695         49       45.0       2303         48       44.0       472         48       44.0       654         48       44.0       679         48       44.0       1030         48       44.0       1089         47.5       43.6       674         47       43.1       110         47       43.1       393         47       43.1       434         47       43.1       482         47       43.1       1041         47       43.1       1041         47       43.1       1150         47       43.1       1232         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43.1       1256         47       43	49       45.0       476       2         49       45.0       1362       2         49       45.0       1695       2         49       45.0       2303       2         48       44.0       472       2         48       44.0       654       2         48       44.0       679       1         48       44.0       1030       2         48       44.0       1089       2         47.5       43.6       674       2         47       43.1       110       2         47       43.1       157       2         47       43.1       393       2         47       43.1       434       2         47       43.1       494       2         47       43.1       1041       2         47       43.1       1147       2         47       43.1       1150       2         47       43.1       1256       2         47       43.1       1256       2         47       43.1       1267       2         47       43.1       1267	49 45.0 476 2 Q759N7_ASHGO 49 45.0 820 2 Q4IP00_GIBZE 49 45.0 1362 2 Q611V7_CAEBR 49 45.0 1695 2 Q4P3I9_USTMA 49 45.0 2303 2 Q4PF49_USTMA 48 44.0 472 2 O52491_AGRVI 48 44.0 654 2 Q4Z078_PLABE 48 44.0 6654 2 Q4Z078_PLABE 48 44.0 1030 2 Q8H037_ORYSA 48 44.0 1089 2 Q4QBW2_LEIMA 47.5 43.6 674 2 Q06629_YEAST 47 43.1 110 2 Q7TUE3_PROMP 47 43.1 157 2 Q8GW40_ARATH 47 43.1 393 2 Q8BNS4_MOUSE 47 43.1 393 2 Q8BNS4_MOUSE 47 43.1 434 2 Q4QAI2_LEIMA 47 43.1 434 2 Q4QAI2_LEIMA 47 43.1 434 2 Q4QAI2_LEIMA 47 43.1 494 2 Q7RDC8_PLAYO 47 43.1 1041 2 O23536_ARATH 47 43.1 1135 2 Q8S4Q0_ARATH 47 43.1 1147 2 Q8L843_ARATH 47 43.1 1150 2 Q50PT4_ENTHI 47 43.1 1232 2 Q8IEF5_PLAF7 47 43.1 1266 2 O23528_ARATH 47 43.1 1266 2 Q7RFW3_PLAYO 46.5 42.7 634 2 Q4FXZ9_LEIMA 46 42.2 365 2 Q5U926_9CALI 46 42.2 371 2 Q8BZ78_MOUSE 46 42.2 386 2 O54428_9LACT 46 42.2 386 2 O54428_9LACT	49 45.0 476 2 Q759N7_ASHGO Q759N7 ashbya gos 49 45.0 820 2 Q41P00 G1BZE Q4ip00 gibberella 49 45.0 1362 2 Q611V7 CAEBR Q611V7 caenorhabd 49 45.0 1695 2 Q4P319_USTMA Q4p3i9 ustilago m 49 45.0 2303 2 Q4PF49_USTMA Q4p3i9 ustilago m 48 44.0 472 2 O52491_AGRVI O52491 agrobacter 48 44.0 472 2 Q9X5L2_AGRVI Q9X512 agrobacter 48 44.0 654 2 Q4Z078_PLABE Q4z078 plasmodium 48 44.0 679 1 UBC17_CAEBL Q11076 caenorhabd 48 44.0 1030 2 Q8H037_ORYSA Q8h037 oryza sati 48 44.0 1089 2 Q4QBW2_LEIMA Q4gbw2_leishmania 47.5 43.6 674 2 Q06629_YEAST Q06629_YEAST Q06629_SCACHAROM Q7tue3_prochloroc 47 43.1 110 2 Q7TUB3_PROMP Q7tue3_prochloroc 47 43.1 306 2 Q99J12_MOUSE Q99J12_mus_mus_cul 47 43.1 393 2 Q8BNS4_MOUSE Q8bns4_mus_mus_cul 47 43.1 434 2 Q4QAI2_LEIMA Q4qi2_leishmania 47 43.1 434 2 Q4QAI2_LEIMA Q4qi2_leishmania 47 43.1 482 2 Q8BSN1_MOUSE Q8bsn1_mus_mus_cul 47 43.1 1041 2 O27508_PLAYO Q7rdc8_plasmodium 47 43.1 1150 2 Q7RDC8_PLAYO Q7rdc8_plasmodium 47 43.1 1150 2 Q8S4Q0_ARATH Q8s4q0_arabidopsi 47 43.1 1150 2 Q8S4Q0_ARATH Q8s4q0_arabidopsi 47 43.1 1150 2 Q5528_ARATH Q8s4q0_arabidopsi 47 43.1 1150 2 Q8S4Q0_ARATH Q8s4q0_arabidopsi 47 43.1 1150 2 Q559T4_ENTHI Q50pt4_entamoeba 47 43.1 1150 2 Q50PT4_ENTHI Q50PT4_ENTHI Q50PT4_entamoeba 47 43.1 1150 2 Q50PT4_ENTHI Q50PT4_ENTHI Q50PT4_ENTHI Q5

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RESULT 1
FIBH BOMMO
ID
     FIBH BOMMO
                    STANDARD;
                                   PRT; 5263 AA.
AC
     P05790; Q17220; Q26379;
DT
     01-NOV-1988 (Rel. 09, Created)
DT
     16-OCT-2001 (Rel. 40, Last sequence update)
     13-SEP-2005 (Rel. 48, Last annotation update)
DT
DE
     Fibroin heavy chain precursor (Fib-H) (H-fibroin).
GN
     Name=FIBH;
OS
     Bombyx mori (Silk moth).
OC
     Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC
     Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Bombycoidea;
OC
     Bombycidae; Bombyx.
OX
     NCBI_TaxID=7091;
RN
     [1]
RP
    NUCLEOTIDE SEQUENCE.
RX
    MEDLINE=20330362; PubMed=10871375; DOI=10.1093/nar/28.12.2413;
RA
     Zhou C.-Z., Confalonieri F., Medina N., Zivanovic Y., Esnault C.,
```

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Yang T., Jacquet M., Janin J., Duguet M., Perasso R., Li Z.-G.;
RA
     "Fine organization of Bombyx mori fibroin heavy chain gene.";
RT
RL
     Nucleic Acids Res. 28:2413-2419(2000).
RN
     [2]
     NUCLEOTIDE SEQUENCE OF 1-168.
RP
     MEDLINE=80045039; PubMed=498286; DOI=10.1016/0092-8674(79)90075-8;
RX
     Tsujimoto Y., Suzuki Y.;
RA
RT
     "The DNA sequence of Bombyx mori fibroin gene including the 5'
     flanking, mRNA coding, entire intervening and fibroin protein coding
RT
RT
     regions.";
     Cell 18:591-600(1979).
RL
RN
     [3]
RP
     PARTIAL NUCLEOTIDE SEQUENCE.
RX
     MEDLINE=79211211; PubMed=455439; DOI=10.1016/0092-8674(79)90018-7;
RA
     Tsujimoto Y., Suzuki Y.;
     "Structural analysis of the fibroin gene at the 5' end and its
RT
RT
     surrounding regions.";
     Cell 16:425-436(1979).
RL
RN
     [4]
RP
     PARTIAL NUCLEOTIDE SEQUENCE.
RC
     STRAIN=Kinshu X Showa;
RX
     MEDLINE=89094868; PubMed=3210244;
RA
     Mita K., Ichimura S., Zama M., James T.C.;
RT
     "Specific codon usage pattern and its implications on the secondary
RT
     structure of silk fibroin mRNA.";
     J. Mol. Biol. 203:917-925(1988).
RL
RN
RP
     PARTIAL NUCLEOTIDE SEQUENCE.
RX
     MEDLINE=94365842; PubMed=7916056; DOI=10.1007/BF00175878;
RA
     Mita K., Ichimura S., James T.C.;
RT
     "Highly repetitive structure and its organization of the silk fibroin
RT
     gene.";
RL
     J. Mol. Evol. 38:583-592(1994).
RN
RP
     NUCLEOTIDE SEQUENCE OF 5179-5263, AND DISULFIDE BONDS.
RC
     STRAIN=J-139;
RX
     MEDLINE=99296390; PubMed=10366732; DOI=10.1016/S0167-4838(99)00088-6;
RA
     Tanaka K., Kajiyama N., Ishikura K., Waga S., Kikuchi A., Ohtomo K.,
RA
     Takagi T., Mizuno S.;
RT
     "Determination of the site of disulfide linkage between heavy and
RT
     light chains of silk fibroin produced by Bombyx mori.";
RL
     Biochim. Biophys. Acta 1432:92-103(1999).
RN
RΡ
     PARTIAL NUCLEOTIDE SEQUENCE [LARGE SCALE GENOMIC DNA].
RC
     STRAIN=Daizo;
RX
     PubMed=15591204; DOI=10.1126/science.1102210;
RA
     Xia Q., Zhou Z., Lu C., Cheng D., Dai F., Li B., Zhao P., Zha X.,
RA
     Cheng T., Chai C., Pan G., Xu J., Liu C., Lin Y., Qian J., Hou Y.,
RA
     Wu Z., Li G., Pan M., Li C., Shen Y., Lan X., Yuan L., Li T., Xu H.,
RA
     Yang G., Wan Y., Zhu Y., Yu M., Shen W., Wu D., Xiang Z., Yu J.,
RA
     Wang J., Li R., Shi J., Li H., Li G., Su J., Wang X., Li G., Zhang Z.,
     Wu Q., Li J., Zhang Q., Wei N., Xu J., Sun H., Dong L., Liu D.,
RA
     Zhao S., Zhao X., Meng Q., Lan F., Huang X., Li Y., Fang L., Li C.,
RA
RA
     Li D., Sun Y., Zhang Z., Yang Z., Huang Y., Xi Y., Qi Q., He D.,
RA
     Huang H., Zhang X., Wang Z., Li W., Cao Y., Yu Y., Yu H., Li J.,
RA
     Ye J., Chen H., Zhou Y., Liu B., Wang J., Ye J., Ji H., Li S., Ni P.,
RA
     Zhang J., Zhang Y., Zheng H., Mao B., Wang W., Ye C., Li S., Wang J.,
```

```
RA
     Wong G.K.-S., Yang H.;
RT
     "A draft sequence for the genome of the domesticated silkworm (Bombyx
RT
RL
     Science 306:1937-1940(2004).
RN
RP
     SUBUNIT.
RX
    MEDLINE=20568317; PubMed=10986287; DOI=10.1074/jbc.M006897200;
RA
     Inoue S., Tanaka K., Arisaka F., Kimura S., Ohtomo K., Mizuno S.;
RT
     "Silk fibroin of Bombyx mori is secreted, assembling a high molecular
RT
    mass elementary unit consisting of H-chain, L-chain, and p25, with a
RT
     6:6:1 molar ratio.";
    J. Biol. Chem. 275:40517-40528(2000).
RL
CC
    -!- FUNCTION: Core component of the silk filament; a strong, insoluble
CC
        and chemically inert fiber.
CC
     -!- SUBUNIT: Silk fibroin elementary unit consists in a disulfide-
CC
        linked heavy and light chain and a p25 glycoprotein in molar
CC
        ratios of 6:6:1. This results in a complex of approximately 2.3
CC
CC
    -!- TISSUE SPECIFICITY: Produced exclusively in the posterior (PSG)
CC
        section of silk glands, which are essentially modified salivary
CC
        glands.
CC
    -!- DOMAIN: Composed of antiparallel beta sheets. The strands of the
CC
        beta sheets run parallel to the fiber axis. Long stretches of silk
CC
        fibroin are composed of microcrystalline arrays of (-Gly-Ser-Gly-
CC
        Ala-Gly-Ala-)n interrupted by regions containing bulkier residues.
CC
        The fiber is composed of microcrystalline arrays alternating with
CC
        amorphous regions.
    -!- PTM: The interchain disulfide bridge is essential for the
CC
        intracellular transport and secretion of fibroin.
CC
CC
     CC
    This Swiss-Prot entry is copyright. It is produced through a collaboration
CC
    between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC
    the European Bioinformatics Institute. There are no restrictions on its
CC
    use as long as its content is in no way modified and this statement is not
CC
    removed.
     CC
    EMBL; AF226688; AAF76983.1; -; Genomic_DNA.
DR
DR
    EMBL; V00094; CAA23432.1; -; Genomic DNA.
DR
    EMBL; V00097; CAA23433.1; -; Genomic DNA.
DR
    EMBL; S74439; AAB31861.1; -; mRNA.
DR
    EMBL; X13869; CAA32076.1; -; mRNA.
    EMBL; M35378; AAA27839.1; -; mRNA.
DR
    EMBL; AB017362; BAA33147.1; -; Genomic_DNA.
DR
DR
    EMBL; CK538369; -; NOT ANNOTATED CDS; mRNA.
DR
    EMBL; AADK01000575; -; NOT_ANNOTATED CDS; Genomic DNA.
DR
    PIR; S01844; S01844.
KW
    Repeat; Signal; Silk.
FT
    SIGNAL
                 1
                      21
                                Potential.
FT
    CHAIN
                22
                     5263
                                Fibroin heavy chain.
FT
    REGION
               149
                     5206
                                Highly repetitive.
FT
    DISULFID
               5244
                     5244
                                Interchain (with C-190 in light chain).
             5260
FT
    DISULFID
                    5263
FT
                      10
    CONFLICT
               10
                               C -> V (in Ref. 2).
SQ
    SEQUENCE 5263 AA; 391593 MW; 8EE11D3A0A47440E CRC64:
 Query Match
                       100.0%; Score 109; DB 1; Length 5263;
 Best Local Similarity 100.0%; Pred. No. 5.3e-07;
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Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qу 1 AASSVSSASSRSYDYSRRNVRKN 23 

Db

Search completed: December 16, 2005, 23:52:12

Job time : 150.036 secs

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:08:17; Search time 125 Seconds

(without alignments)

70.301 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A G

A\_Geneseq\_21:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp2000s:\*

4: geneseqp2001s:\*

5: geneseqp2002s:\*

6: geneseqp2003as:\*

7: geneseqp2003bs:\*

8: geneseqp2004s:\*

9: geneseqp2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result		% Query				,
No.	Score	Match	Length	DB 	ID	Description
1	108	100.0	20	8	ADU51237	Adu51237 Gut silkw
2	108	100.0	20	8	ADU51211	Adu51211 Silkworm
3	108	100.0	120	8	ADU51171	Adu51171 Gut silkw
4	108	100.0	2655	7	AD059401	Ado59401 Antheraea
5	50	46.3	1100	5	ABB50120	Abb50120 Listeria
6	49	45.4	299	9	ABM93718	Abm93718 M. xanthu
7	49	45.4	325	3	AAB07672	Aab07672 Amino aci
8	49	45.4	325	8	ADU66520	Adu66520 TaD, memb

```
9
        49
             45.4
                     325 9 ADZ44577
                                                       Adz44577 Myxococcu
10
        49
             45.4
                     640 6 ABP71659
                                                       Abp71659 A. cellul
                          7 ADF75899
11
        49
             45.4
                     640
                                                       Adf75899 Catalytic
12
        49
             45.4
                    1121
                          6 ABP71656
                                                       Abp71656 A. cellul
13
        49
             45.4
                    1121
                          7
                             ADF75895
                                                       Adf75895 Acidother
14
      48.5
             44.9
                     201
                          7
                             ADM25426
                                                       Adm25426 Hyperther
15
             44.4
                     55 5 ABG80758
        48
                                                       Abg80758 C-type le
16
        48
             44.4
                     159 5 ABB56404
                                                       Abb56404 Human col
17
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             44.4
                     277 2 AAY25518
                                                       Aay25518 Human col
18
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        48
             44.4
                          2 AAY41698
                                                       Aay41698 Human PRO
                     277 3 AAB44254
19
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                                                       Aab44254 Human PRO
20
        48
             44.4
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                            AAU29073
                         4
                                                       Aau29073 Human PRO
21
                     277 6 ABU58449
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             44.4
                                                       Abu58449 Human PRO
22
        48
             44.4
                     277
                          6 ABU87997
                                                       Abu87997 Novel hum
23
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                          6 ABU84312
                                                       Abu84312 Human sec
24
        48
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                     277
                             ABR66186
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                                                       Abr66186 Human sec
25
        48
             44.4
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                             ABR65576
                                                       Abr65576 Human sec
26
        48
             44.4
                     277
                          6
                             ABU99516
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27
        48
             44.4
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                          6
                             ABU82755
                                                       Abu82755 Human PRO
28
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                          6
                            ABU89876
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29
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        48
             44.4
                     277 6 ABU96178
                                                       Abu96178 Novel hum
31
        48
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                                                       Abu92609 Human sec
32
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                     277 6
                            ABO08686
                                                       Abo08686 Human sec
                     277 6
33
        48
             44.4
                             ABO02738
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34
        48
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                     277
                         6
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                                                       Abr74892 Human sec
35
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                     277 6
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                                                       Abr94654 Human sec
36
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                            ABO25200
                                                       Abo25200 Novel hum
37
        48
             44.4
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                             ABU85627
                                                       Abu85627 Human PRO
38
        48
             44.4
                     277 6
                            ABU98787
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39
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40
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                             ABU91708
                                                       Abu91708 Novel hum
41
        48
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                     277
                          6
                             ABU72206
                                                       Abu72206 Novel hum
42
        48
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                     277
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                             ABU89401
                                                       Abu89401 Human PRO
43
       48
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                     277
                          6
                             ABU86242
                                                       Abu86242 Human sec
44
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             44.4
                     277 6
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                                                       Abu67455 Human sec
45
       48
             44.4
                     277
                         6 ABU80483
                                                       Abu80483 Human PRO
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RESULT 1
ADU51237
     ADU51237 standard; peptide; 20 AA.
XX
AC
     ADU51237;
XX
DT
     24-FEB-2005 (first entry)
XX
DE
     Gut silkworm fibroin peptide fragment 39.
XX
KW
     vulnerary; cell proliferation; wound healing; cell adhesion; cosmetics;
KW
     cell culture; fibroin.
XX
OS
     Bombycoidea.
XX
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```
PN
     JP2004339189-A.
XX
PD
     02-DEC-2004.
ХX
PF
     04-DEC-2003; 2003JP-00406608.
XX
PR
     28-FEB-2003; 2003JP-00055048.
XX
PA
     (DOKU-) DOKURITSU GYOSEI HOJIN NOGYO SEIBUTSU SH.
     (TSUB/) TSUBOUCHI K.
PA
XX
DR
     WPI; 2004-827614/82.
XX
РΤ
     New peptide having excellent cell growth promoting activity, for use as a
PT
     cell growth promoter, cell adhesion agent, wound healing-promoting agent,
PT
     cosmetic and cell culture base material.
XX
PS
     Example 3; Page; 27pp; Japanese.
XX
CC
     The invention relates to a novel peptide having excellent cell growth
CC
     promoting activity. The peptide of the invention demonstrates vulnerary
     activity and may be utilised as a cell growth promoter, cell adhesion
CC
CC
     agent, wound healing-promoting agent or cosmetic and cell culture base
CC
     material. The current sequence is that of a gut silkworm fibroin peptide
CC
     fragment of the invention which is described as being amorphous.
XX
SO
     Sequence 20 AA;
  Query Match
                          100.0%; Score 108; DB 8; Length 20;
  Best Local Similarity 100.0%; Pred. No. 3.6e-10;
  Matches
            20; Conservative 0; Mismatches 0; Indels
                                                                 0; Gaps
                                                                             0;
QУ
            1 VETIVLEEDPYGHEDIYEED 20
              11111111111111111
Db
            1 VETIVLEEDPYGHEDIYEED 20
RESULT 4
ADO59401
     ADO59401 standard; protein; 2655 AA.
XX
AC
     AD059401;
XX
DT
     15-JUL-2004 (first entry)
XX
     Antheraea yamamai fibroin.
DE
XX
KW
     Japanese oak silkmoth; fibroin; silkworm; raw silk; thread.
XX
OS
    Antheraea yamamai.
XX
PN
    KR2002094304-A.
XX
PD
    18-DEC-2002.
XX
ΡF
     08-JUN-2001; 2001KR-00031954.
```

```
XX
PR
     08-JUN-2001; 2001KR-00031954.
XX
PΑ
     (RURA-) RURAL DEV ADMINISTRATION.
XX
PΙ
     Hwang JS, Jin BR, Kang SU, Kim GY, Kim YS, Koo TW, Lee JS;
PΙ
     Lee SM, Seo DS, Yoon EY;
XX
     WPI; 2003-399638/38.
DR
DR
     N-PSDB; ADO59400.
XX
PT
     Nucleotide sequence encoding fibroin useful for transforming silkworms
PT
     for producing raw silk thread comprises a gene isolated from Antheraea
PT
     yamamai and its promoter.
XX
PS
     Example 1; SEQ ID NO 2; 19pp; Korean.
XX
CC
     This invention describes a novel nucleic acid isolated from Antheraea
CC
     yamamai (Japanese oak silkmoth) which encodes fibroin. The nucleic acid
     is useful for producing transformed silkworms capable of producing raw
CC
CC
     silk-thread.
XX
SQ
     Sequence 2655 AA;
  Query Match
                         100.0%; Score 108; DB 7; Length 2655;
  Best Local Similarity
                         100.0%; Pred. No. 1.3e-07;
          20; Conservative 0; Mismatches 0; Indels
                                                                0; Gaps
                                                                            0;
QУ
            1 VETIVLEEDPYGHEDIYEED 20
              Db
           61 VETIVLEEDPYGHEDIYEED 80
RESULT 5
ABB50120
     ABB50120 standard; protein; 1100 AA.
XX
AC
    ABB50120;
XX
DT
     05-FEB-2002 (first entry)
XX
DΕ
    Listeria monocytogenes protein #2824.
XX
KW
    Antibacterial; gene therapy; vaccine; biosynthesis; biodegradation;
KW
    vitamin B12; bacterial infection; disease.
XX
    Listeria monocytogenes.
OS
XX
PN
    WO200177335-A2.
XX
    18-OCT-2001.
PD
XX
PF
    11-APR-2001; 2001WO-FR001118.
XX
PR
    11-APR-2000; 2000FR-00004629.
XX
PΑ
     (INSP ) INST PASTEUR.
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     Buchrieser C, Frangeul L, Couve E, Rusniok C, Fsihi H, Dehoux P;
     Dussurget O, Chetouani F, Nedjari H, Glaser P, Kunst F, Cossart P;
PΙ
     Daniels J, Goebel W, Kreft J, Kuhn M, Ng E, Vazquez-Boland JA;
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     Dominguez-Bernal G, Garrido-Garcia P, Tierrez-Martinez A, Amend A;
PΙ
     Chakraborty T, Domann E, Hain T, Berche P, Charbit A, Durant L;
PΙ
     Perez-Diaz J, Baquero F, Garcia Del Portillo F, Gomez-Lopez N;
PΙ
     Maduenio E, De Pablos B, Wehland J, Kaerst U, Entian K, Hauf J:
PΙ
     Rose M, Voss H;
XX
DR
     WPI; 2002-010914/01.
XX
PT
     Genomic sequence for Listeria monocytogenes, useful e.g. for treatment
PT
     and prevention of Listeria and related bacterial infections, and related
PT
     polypeptides.
XX
PS
     Claim 6; SEQ ID NO 2825; 192pp; French.
XX
CC
     The present invention relates to the genome sequence of Listeria
CC
     monocytogenes EGD-e (see ABA03041). The genome sequence and fragments of
CC
     it are useful for selecting probes and primers for detecting genes in L.
CC
     monocytogenes and related organisms, and for studying genetic
CC
     polymorphisms and other genomes. The present sequence is a protein
CC
     encoded by the genome sequence of the present invention. Proteins
CC
     expressed from the genome sequence are useful for raising specific
CC
     antibodies, identification of L. monocytogenes and related organisms, and
CC
     for biosynthesis and biodegradation, especially biosynthesis of Vitamin
CC
     B12. The genome sequence and proteins encoded by it are also useful for
CC
     selecting compounds that regulate gene expression and cell replication
CC
     and modulate L. monocytogenes-related diseases. In addition, the genome
CC
     sequence and proteins encoded by it are useful in pharmaceutical and
CC
     vaccines compositions for the treatment or prevention of infections by L.
CC
     monocytogenes and related organisms. Note: The sequence data for this
CC
     patent did not form part of the printed specification, but was obtained
CC
     in electronic format directly from WIPO at
CC
     ftp.wipo.int/pub/published_pct_sequences
XX
SO
     Sequence 1100 AA;
 Query Match
                         46.3%; Score 50; DB 5; Length 1100;
  Best Local Similarity
                         47.1%; Pred. No. 97;
 Matches
           8; Conservative
                                4; Mismatches
                                                  5; Indels 0; Gaps
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Qу
           3 TIVLEEDPYGHEDIYEE 19
              | : ||:|||: ||:
Db
         242 TAHISHDPFGHENRYEQ 258
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Search completed: December 16, 2005, 23:46:10 Job time : 127 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd. OM protein - protein search, using sw model

Run on: December 16, 2005, 23:40:43; Search time 30.3571 Seconds

(without alignments)

54.469 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:\*

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2: /cgn2\_6/ptodata/1/iaa/6 COMB.pep:\*

3: /cgn2\_6/ptodata/1/iaa/H\_COMB.pep:\*

4: /cgn2\_6/ptodata/1/iaa/PCTUS COMB.pep:\*

5: /cgn2\_6/ptodata/1/iaa/RE\_COMB.pep:\*

6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		용				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1 2 3 4 5 6 7 8 9	49 49 48 48 48 47 47 47	45.4 45.4 44.4 44.4 43.5 43.5 43.5 43.5	299 325 277 277 277 562 636 726 781	2 2 2 2 2 2 2 2 2 2 2 2	US-09-902-540-12917 US-09-710-262E-9 US-09-600-932-2 US-09-999-833A-97 US-10-020-445A-97 US-09-949-002-426 US-09-564-805-237 US-09-187-330-57 US-09-187-330-32	Sequence 12917, A Sequence 9, Appli Sequence 2, Appli Sequence 97, Appl Sequence 97, Appl Sequence 426, App Sequence 237, App Sequence 57, Appl Sequence 32, Appl
10 11 12 13 14 15	47 47 47 47 47 47	43.5 43.5 43.5 43.5 43.5 43.5	787 800 806 828 874 937 937	2 2 2 1 2	US-09-187-330-31 US-09-187-330-41 US-09-187-330-3 US-09-187-330-55 US-09-187-330-59 US-08-253-155A-31 US-09-538-092-1092	Sequence 31, Appl Sequence 41, Appl Sequence 3, Appli Sequence 55, Appl Sequence 59, Appl Sequence 31, Appl Sequence 1092, Ap

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17
                    937 2 US-09-949-002-374
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18
       47
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                                                      Sequence 1091, Ap
19
       47
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                   1000 2 US-09-187-330-1
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20
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                   289 2 US-09-902-540-10736
21
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                                                      Sequence 10736, A
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                                                      Sequence 16693, A
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24
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            41.7
                                                      Sequence 11, Appl
25
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                                                      Sequence 11, Appl
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                                                      Sequence 8288, Ap
                    536 1
41
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                                                      Sequence 12, Appl
42
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                                                      Sequence 12, Appl
43
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            39.8 536 2 US-08-459-951-12
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44
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45
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                    817 1 US-08-381-931B-2
                                                      Sequence 2, Appli
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RESULT 1
US-09-902-540-12917
; Sequence 12917, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
  APPLICANT: Goldman, Barry S.
  APPLICANT: Hinkle, Gregory J.
  APPLICANT:
              Slater, Steven C.
              Wiegand, Roger C.
  APPLICANT:
  TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
   FILE REFERENCE: 38-10(15849)B
   CURRENT APPLICATION NUMBER: US/09/902,540
  CURRENT FILING DATE: 2001-07-10
  PRIOR APPLICATION NUMBER: 60/217,883
   PRIOR FILING DATE: 2000-07-10
  NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 12917
   LENGTH: 299
    TYPE: PRT
    ORGANISM: Myxococcus xanthus
US-09-902-540-12917
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Score 49; DB 2; Length 299;

45.4%;

Query Match

Best Local Similarity 53.8%; Pred. No. 7.2;
Matches 7; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

Qy 7 EEDPYGHEDIYEE 19 | | : | | : : | : Db 95 EADAFGHEELYEQ 107

Search completed: December 17, 2005, 00:12:07

Job time : 30.3571 secs

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OM protein - protein search, using sw model

Run on: December 16, 2005, 23:52:28; Search time 105.714 Seconds

(without alignments)

79.049 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA\_Main:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*
2: /cgn2\_6/ptodata/1/pubpaa/US08\_PUBCOMB.pep:\*
3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*
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5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*
6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result Query

No. Score Match Length DB ID

Description

. 1	108	100.0	20	5	US-10-789-494B-7	Sequence 7, Appli
2	108	100.0	20	5	US-10-789-494B-67	Sequence 67, Appl
3	108	100.0	120	5	US-10-789-494B-23	Sequence 23, Appl
4	53	49.1	127	4	US-10-424-599-203223	Sequence 203223,
5	51	47.2	113	4	US-10-424-599-200988	Sequence 200988,
6	49	45.4	325	5	US-10-848-111-9	Sequence 9, Appli
7	49	45.4	554	4	US-10-424-599-180031	Sequence 180031,
8	48	44.4	159	4	US-10-258-105-14	Sequence 14, Appl
9	48	44.4	277	3	US-09-978-295A-97	Sequence 97, Appl
10	48	44.4	277	3	US-09-978-697-97	Sequence 97, Appl
11	48	44.4	277	3	US-09-978-192A-97	Sequence 97, Appl
12	48	44.4	277	3	US-09-999-832A-97	Sequence 97, Appl
13	48	44.4	277	3	US-09-978-189-97	Sequence 97, Appl
14	48	44.4	277	3	US-09-978-608A-97	Sequence 97, Appl
15	48	44.4	277	3	US-09-978-585A-97	Sequence 97, Appl
16	48	44.4	277	3	US-09-978-191A-97	Sequence 97, Appl
17	48	44.4	277	3	US-09-978-403A-97	Sequence 97, Appl
18	48	44.4	277	3	US-09-978-564A-97	Sequence 97, Appl
19	48	44.4	277	3	US-09-999-833A-97	Sequence 97, Appl
20	48	44.4	277	3	US-09-981-915A-97	Sequence 97, Appl
21	48	44.4	277	3	US-09-978-824-97	Sequence 97, Appl
22	48	44.4	277	3	US-09-918-585A-97	Sequence 97, Appl
23	48	44.4	277	3	US-09-999-834A-97	Sequence 97, Appl
24	48	44.4	277	3	US-09-978-423A-97	Sequence 97, Appl
25	48	44.4	277	3	US-09-978-193A-97	Sequence 97, Appl
26	48	44.4	277	3	US-09-999-830A-97	Sequence 97, Appl
27	48	44.4	277	3	US-09-978-757A-97	Sequence 97, Appl
28	48	44.4	277	3	US-09-978-187B-97	Sequence 97, Appl
29	48	44.4	277	3	US-09-978-643A-97	Sequence 97, Appl
30	48	44.4	277	3	US-09-978-375A-97	Sequence 97, Appl
31	48	44.4	277	3	US-09-978-298A-97	Sequence 97, Appl
32	48	44.4	277	3	US-09-978-188A-97	Sequence 97, Appl
33	48	44.4	277	3	US-09-978-681A-97	Sequence 97, Appl
34	48	44.4	277	3	US-09-978-194A-97	Sequence 97, Appl
35	48	44.4	277	3	US-09-999-829A-97	Sequence 97, Appl
36	48	44.4	277	3	US-09-978-299A-97	Sequence 97, Appl
37	48	44.4	277	3	US-09-978-544A-97	Sequence 97, Appl
38	48	44.4	277	3	US-09-978-665A-97	Sequence 97, Appl
39	48	44.4	277	3	US-09-978-802A-97	Sequence 97, Appl
40	48	44.4	277	3	US-09-999-831A-97	Sequence 97, Appl
41	48	44.4	277	3	US-09-978-824-97	Sequence 97, Appl
42	48	44.4	277	4	US-10-052-586-100	Sequence 100, App
43	48	44.4	277	4	US-10-174-590-100	Sequence 100, App
44	48	44.4	277	4	US-10-176-758-100	Sequence 100, App
45	48	44.4	277	4	US-10-175-737-100	Sequence 100, App

## RESULT 1

US-10-789-494B-7

- ; Sequence 7, Application US/10789494B ; Publication No. US20050143296A1
- ; GENERAL INFORMATION:
- ; APPLICANT: TSUBOUCHI, Kozo

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; APPLICANT: YAMADA, Hiromi
   TITLE OF INVENTION: EXTRACTION AND UTILIZATION OF CELL
   TITLE OF INVENTION: GROWTH-PROMOTING PEPTIDES FROM SILK PROTEIN
   FILE REFERENCE: OPS 635
   CURRENT APPLICATION NUMBER: US/10/789,494B
   CURRENT FILING DATE: 2004-02-27
   PRIOR APPLICATION NUMBER: JP 2003-55048
  PRIOR FILING DATE: 2003-02-28
 NUMBER OF SEQ ID NOS: 85
; SEQ ID NO 7
   LENGTH: 20
    TYPE: PRT
    ORGANISM: Antheraea yamamai
US-10-789-494B-7
  Query Match
                         100.0%; Score 108; DB 5; Length 20;
  Best Local Similarity 100.0%; Pred. No. 2.7e-09;
  Matches
           20; Conservative 0; Mismatches 0; Indels
                                                               0; Gaps
                                                                           0;
Qу
            1 VETIVLEEDPYGHEDIYEED 20
             Db
            1 VETIVLEEDPYGHEDIYEED 20
RESULT 4
US-10-424-599-203223
; Sequence 203223, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
  APPLICANT: La Rosa Thomas J
  APPLICANT: Kovalic David K
  APPLICANT:
              Zhou Yihua
  APPLICANT: Cao Yongwei
   TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated
With
  TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
  FILE REFERENCE: 38-21(53223)B
  CURRENT APPLICATION NUMBER: US/10/424,599
  CURRENT FILING DATE: 2003-04-28
  NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 203223
   LENGTH: 127
   TYPE: PRT
   ORGANISM: Glycine max
   OTHER INFORMATION: Clone ID: PAT MRT3847 25535C.1.pep
US-10-424-599-203223
  Query Match
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 Best Local Similarity 50.0%; Pred. No. 4.2;
          10; Conservative 5; Mismatches 3; Indels 2; Gaps
 Matches
Qу
           3 TIVLEED--PYGHEDIYEED 20
             :::| || | || || || ||
Db
         108 SVILNEDSRPCGHKCLYEED 127
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Search completed: December 17, 2005, 00:17:33

Job time : 106.714 secs

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:53:24; Search time 5.35714 Seconds

(without alignments)

25.151 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51470 seqs, 6736768 residues

Total number of hits satisfying chosen parameters: 51470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:\*

- 1: /cgn2\_6/ptodata/1/pubpaa/US09 NEW PUB.pep:\*
- 2: /cgn2 6/ptodata/1/pubpaa/US06 NEW PUB.pep:\*
- 3: /cgn2\_6/ptodata/1/pubpaa/US07 NEW PUB.pep:\*
- 4: /cgn2\_6/ptodata/1/pubpaa/US08 NEW PUB.pep:\*
- 5: /cgn2\_6/ptodata/1/pubpaa/PCT NEW PUB.pep:\*
- 6: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep:\*
- 7: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep:\*
- 8: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB	ID	Description
1	45	41.7	98	6	US-10-467-657-3490	Sequence 3490, Ap
2	43	39.8	963	6	US-10-467-962B-2	Sequence 2, Appli
3	42	38.9	459	7	US-11-186-284-12	Sequence 12, Appl
4	42	38.9	2647	6	US-10-821-234-1303	Sequence 1303, Ap
5	40	37.0	21	6	US-10-939-890-584	Sequence 584, App

_	4.0	27 0	221	_	110 10 005 561 077	C	077 3
6	40	37.0	331	6	US-10-995-561-977	_	977, App
7	40	37.0	331	6	US-10-995-561-978		978, App
8	40	37.0	3655	7	US-11-075-185-5		5, Appli
9	39.5	36.6	450	7	US-11-074-176-212		212, App
10	39	36.1	651	7	US-11-172-145-10		10, Appl
11	39	36.1	1116	6	US-10-485-517-238		238, App
12	39	36.1	1117	6	US-10-485-517-206		206, App
13	39	36.1	1236	7	US-11-115-086-4		4, Appli
14	38	35.2	414	6	US-10-467-657-2432	=	2432, Ap
15	38	35.2	564	7	US-11-186-284-199		199, App
16	37	34.3	216	6	US-10-793-626 <b>-</b> 2624		2624, Ap
17	37	34.3	307	6	US-10-793-626-684		684, App
18	37	34.3	457	6	US-10-763-712A-61	Sequence	61, Appl
19	37	34.3	1065	6	US-10-793-626-1212	Sequence	1212, Ap
20	37	34.3	1152	7	US-11-080-026-4	Sequence	4, Appli
21	36.5	33.8	126	6	US-10-821-234-1318	Sequence	1318, Ap
22	36	33.3	265	6	US-10-793-626-2422	Sequence	2422, Ap
23	36	33.3	272	6	US-10-793-626-2290	Sequence	2290, Ap
24	36	33.3	286	6	US-10-793-626-1020	Sequence	1020, Ap
25	36	33.3	356	6	US-10-793-626-2054	Sequence	2054, Ap
26	36	33.3	388	6	US-10-467-657-786		786, App
27	36	33.3	402	6	US-10-485-517-422		422, App
28	36	33.3	502	6	US-10-131-826A-548		548, App
29	36	33.3	502	6	US-10-689-742-148		148, App
30	36	33.3	505	6	US-10-467-657-5148		5148, Ap
31	36	33.3	615	7	US-11-172-145-6		6, Appli
32	36	33.3	617	7	US-11-172-145-8		8, Appli
33	36	33.3	695	6	US-10-363-924-2	_	2, Appli
34	36	33.3	892	6	US-10-507-275-3		3, Appli
35	36	33.3	903	7	US-11-057-058-65	_	65, Appl
36	36	33.3	904	6	US-10-507-275-5	_	5, Appli
37	36	33.3	904	7	US-11-087-227-12		12, Appl
38	36	33.3	1442	6	US-10-793-626-2052		2052, Ap
39	35.5	32.9	635	6	US-10-821-234-927		927, App
40	35.5	32.9	2261	6	US-10-995-561-600		600, App
41	35	32.4	154	6	US-10-467-657-158		158, App
42	35	32.4	154	6	US-10-467-657-6520	Sequence	
43	35	32.4	154	6	US-10-467-657-7634		7634, Ap
44	35	32.4	182	7	US-11-000-463-717		717, App
45	35	32.4	219	6	US-10-467-657-4956		4956, Ap
4.0	23	J2.4	ريد	U	00 10 407 007 4900	pedreuce	4000, Ap

### RESULT 1

US-10-467-657-3490

- ; Sequence 3490, Application US/10467657
- ; Publication No. US20050260581A1
- ; GENERAL INFORMATION:
- ; APPLICANT: CHIRON SpA
- ; APPLICANT: FONTANA Maria Rita
- ; APPLICANT: PIZZA Mariagrazia
- ; APPLICANT: MASIGNANI Vega
- ; APPLICANT: MONACI Elisabetta
- ; TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
- ; FILE REFERENCE:

```
; CURRENT APPLICATION NUMBER: US/10/467,657
  CURRENT FILING DATE: 2003-08-11
  PRIOR APPLICATION NUMBER: GB-0103424.8
  PRIOR FILING DATE: 2001-02-12
  NUMBER OF SEQ ID NOS: 9218
  SOFTWARE: SeqWin99, version 1.04
; SEQ ID NO 3490
   LENGTH: 98
   TYPE: PRT
   ORGANISM: Neisseria gonorrhoeae
US-10-467-657-3490
 Query Match
                         41.7%; Score 45; DB 6; Length 98;
 Best Local Similarity 53.8%; Pred. No. 1.4;
 Matches
           7; Conservative 2; Mismatches 4; Indels
                                                               0; Gaps
                                                                           0;
Qу
           7 EEDPYGHEDIYEE 19
             |:||| :| |
Db
          75 EDDPYVHAGVYSE 87
Search completed: December 17, 2005, 00:17:54
Job time : 5.35714 secs
```

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:33:32; Search time 20.7143 Seconds

(without alignments)

92.899 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 segs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR 80:\*

> 1: pir1:\* 2: pir2:\*

3: pir3:\*
4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		%			SUMMARI	ES
Result		∘ Query				
No.	Score		Length	פת	ID	Dogarintion
NO.	2016					Description
1	108	100.0	2639	2	T31328	fibroin - Chinese
2	50	46.3	1100	2	AG1097	alpha-xylosidase a
3	47	43.5	221	2	A84638	hypothetical prote
4	47	43.5	636	2	F69027	cleavage and polya
5	47	43.5	937	1	S42366	endopeptidase La h
6	47	43.5	962	1	S57342	endopeptidase La h
7	47	43.5	1005	2	T12546	hypothetical prote
8	47	43.5	1090	2	S59077	cellulose 1,4-beta
9	46	42.6	68	2	S27148	gene 30.4 protein
10	46	42.6	216	2	E89848	conserved hypothet
11	45.5	42.1	288	2	AH1399	ABC transporter (A
12	45.5	42.1	288	2	AG1775	ABC transporter (A
13	45.5	42.1	1165	2	A70423	valine-tRNA ligase
14	45	41.7	92	2	E81209	conserved hypothet
15	45	41.7	96	2	E81786	conserved hypothet
16	45	41.7	129	2	F72425	2-amino-4-hydroxy-
17	45	41.7	286	1	JQ2154	frxC protein - Ple
18	45	41.7	288	2	AF2440	protochlorophyllid
19	45	41.7	314	2	F84044	malate dehydrogena
20	45	41.7	382	2	B49193	type II activin re
21	45	41.7	429	2	AB3550	NAD(P) transhydrog
22	45	41.7	504	2	B40829	activin receptor i
23	45	41.7	512	2	D40829	activin receptor i
24	45	41.7	512	2	I37134	activin type II re
25	45	41.7	513	2	JQ1484	activin receptor p
26	45	41.7	614	2	JH0500	zinc finger protei
27	45	41.7	726	2	D97012	probable processiv
28	45	41.7	2206	2	G71611	hypothetical prote
29	44	40.7	300	2	A81418	pseudouridylate sy
30	44	40.7	357	2	S43278	cell division cont
31	44	40.7	376	2	A71175	probable dehydroge
32	44	40.7	407	2	F72772	probable valine-py
33	44	40.7	410	2	E75208	probable valine-py
34	44	40.7	539	2	F75497	probable arginine
35	44	40.7	695	2	T40451	n-terminal acetylt
36	44	40.7	850	2	F95260	ABC transporter, p
37	44	40.7	850	2	A98126	conserved hypothet
38	44	40.7	973	2	T35238	probable secreted
39	43.5	40.3	526	1	G71081	probable helicase
40	43.5	40.3	789	2	T38423	hypothetical prote
41	43.5	40.3	1684	2	T02367	hypothetical prote
42	43	39.8	89	2	T27015	hypothetical prote
43	43	39.8	98	2	A70301	ribosomal protein
44	43	39.8	114	1	E64423	ychN protein homol
45	43	39.8	142	2	A97409	hypothetical prote

```
RESULT 1
T31328
fibroin - Chinese oak silkmoth
C; Species: Antheraea pernyi (Chinese oak silkmoth)
C;Date: 22-Oct-1999 #sequence revision 22-Oct-1999 #text change 09-Jul-2004
C; Accession: T31328
R; Sezutsu, H.; Tamura, T.; Yukuhiro, K.
submitted to the EMBL Data Library, August 1998
A; Description: Characterization of the full length fibroin gene of a wild
silkworm, Antheraea pernyi.
A; Reference number: Z20995
A; Accession: T31328
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Residues: 1-2639 <SEZ>
A; Cross-references: UNIPROT: 076786; UNIPARC: UPI0000078D8E; EMBL: AF083334;
NID:g3450882; PID:g3450883; PIDN:AAC32606.1
C; Genetics:
A; Introns: 14/3
  Query Match
                          100.0%; Score 108; DB 2; Length 2639;
  Best Local Similarity
                          100.0%; Pred. No. 1.5e-07;
  Matches
          20; Conservative 0; Mismatches
                                                 0; Indels
                                                                 0; Gaps
                                                                             0;
Qу
            1 VETIVLEEDPYGHEDIYEED 20
              Db
           61 VETIVLEEDPYGHEDIYEED 80
RESULT 2
AG1097
alpha-xylosidase and alpha-glucosidase homolog lmo0182 [imported] - Listeria
monocytogenes (strain EGD-e)
C; Species: Listeria monocytogenes
C;Date: 27-Nov-2001 #sequence revision 27-Nov-2001 #text change 09-Jul-2004
C; Accession: AG1097
R; Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.;
Bloecker, H.; Brandt, P.; Chakraborty, T.; Charbit, A.; Chetouani, F.; Couve,
E.; de Daruvar, A.; Dehoux, P.; Domann, E.; Dominguez-Bernal, G.; Duchaud, E.;
Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.; Garcia-Del Portillo, F.;
Garrido, P.; Gautier, L.; Goebel, W.; Gomez-Lopez, N.; Hain, T.; Hauf, J.;
Jackson, D.; Jones, L.M.; Karst, U.
Science 294, 849-852, 2001
A; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.;
Maitournam, A.; Mata Vicente, J.; Ng, E.; Nordsiek, G.; Novella, S.; de Pablos,
B.; Perez-Diaz, J.C.; Remmel, B.; Rose, M.; Rusniok, C.; Schlueter, T.; Simoes,
N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, J.; Cossart, P.
A; Title: Comparative genomics of Listeria species.
A; Reference number: AB1077; MUID: 21537279; PMID: 11679669
A; Accession: AG1097
A; Status: preliminary
A; Molecule type: DNA
```

A; Residues: 1-1100 <GLA>

A; Cross-references: UNIPROT: Q8YAE8; UNIPARC: UPI0000055794; GB: NC 003210;

PIDN:CAC98397.1; PID:g16409539; GSPDB:GN00177

A; Experimental source: strain EGD-e

C;Genetics: A;Gene: lmo0182

Query Match 46.3%; Score 50; DB 2; Length 1100;

Best Local Similarity 47.1%; Pred. No. 28;

Matches 8; Conservative 4; Mismatches 5; Indels 0; Gaps 0;

Qy 3 TIVLEEDPYGHEDIYEE 19 | : ||:||: ||:

Db 242 TAHISHDPFGHENRYEQ 258

Search completed: December 16, 2005, 23:53:16

Job time : 22.7143 secs

GenCore version 5.1.6

Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:33:02; Search time 127.857 Seconds

(without alignments)

110.362 Million cell updates/sec

Title: US-10-789-494B-7

Perfect score: 108

Sequence: 1 VETIVLEEDPYGHEDIYEED 20

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 segs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt\_05.80:\*

1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		용				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
			- <i></i>			
1	108	100.0	507	2	Q8ISB3_9NEOP	Q8isb3 antheraea m
2	108	100.0	2639	2	076786_ANTPE	076786 antheraea p
3	108	100.0	2655	2	Q964F4_ANTYA	Q964f4 antheraea y
4	66	61.1	1468	2	Q9GUB5_GALME	Q9gub5 galleria me
5	58	53.7	509	2	Q7Z010_PLOIN	Q7z010 plodia inte
6	58	53.7	735	2	Q7Z009_9NEOP	Q7z009 anagasta ku
7	56	51.9	1065	1	DPO3A_STAAR	Q6gg04 staphylococ
8	53	49.1	275	2	Q7NI14_GLOVI	Q7ni14 gloeobacter
9	50	46.3	358	2	Q8I2X6_PLAF7	Q8i2x6 plasmodium
10	50	46.3	447	2	Q8PWT5_METMA	Q8pwt5 methanosarc
11	50	46.3	1100	2	Q724N1 LISMF	Q724n1 listeria mo
12	50	46.3	1100	2	Q8YAE8_LISMO	Q8yae8 listeria mo
13	49	45.4	321	2	Q4JZ47_STRPN	Q4jz47 streptococc
14	49	45.4	321	2	Q4K056_STRPN	Q4k056 streptococc
15	49	45.4	325	2	Q9XB05 MYXXA	Q9xb05 myxococcus
16	49	45.4	359	2	Q74ZB3 ASHGO	Q74zb3 ashbya goss
17	49	45.4	569	2	Q869X0 DICDI	Q869x0 dictyosteli
18	49	45.4	637	2	Q5CC74_9CUCU	Q5cc74 otiorhynchu
19	49	45.4	721	2	Q609H0 METCA	Q609h0 methylococc
20	49	45.4	2482	2	Q7YYZ4 CRYPV	Q7yyz4 cryptospori
21	49	45.4	4605	2	Q8I1R3_PLAF7	Q8ilr3 plasmodium
22	48.5	44.9	201	2	Q8TZA3 METKA	Q8tza3 methanopyru
23	48.5	44.9	569	2	Q6BXH0 DEBHA	Q6bxh0 debaryomyce
24	48.5	44.9	619	2	Q8IEN9 PLAF7	Q8ien9 plasmodium
25	48	44.4	209	2	Q60ZN9 CAEBR	Q60zn9 caenorhabdi
26	48	44.4	277	2	Q6UW19 HUMAN	Q6uw19 homo sapien
27	48	44.4	277	2	Q9Y6Z7 HUMAN	Q9y6z7 homo sapien
28	48	44.4	864	2	Q8IL99 PLAF7	Q8il99 plasmodium
29	48	44.4	1729	2	Q61AU4 CAEBR	Q61au4 caenorhabdi
30	47	43.5	53	2	Q6LE96_CELFI	Q61e96 cellulomona
31	47	43.5	121	1	Y008_METKA	P94948 methanopyru
32	47	43.5	315	1	Y034 METMP	Q6m183 methanococc
33	47	43.5	334	2	Q4LGU1_9BURK	Q4lgul burkholderi
34	47	43.5	382	2	Q89IA2 BRAJA	Q89ia2 bradyrhizob
35	47	43.5	517	2	Q9BSN5 HUMAN	Q9bsn5 homo sapien
36	47	43.5	540	2	Q6N5W7 RHOPA	
37	47	43.5	636	2	O27271 METTH	Q6n5w7 rhodopseudo
- 38	47	43.5	727	2	065986 CLOCL	027271 methanobact
39	47	43.5	737	2	Q4IMY1_GIBZE	065986 clostridium
40	47	43.5	757 753	2		Q4imy1 gibberella
41	47	43.5	823	1	Q8J1E3_9FUNG ADNP RAT	Q8jle3 piromyces s
42	47	43.5	828	1	<del>_</del>	Q9jkl8 rattus norv
43	47	43.5	895	2	ADNP MOUSE	Q9z103 mus musculu
44	47	43.5	919	2	Q8N8K8_HUMAN	Q8n8k8 homo sapien
45	47	43.5	922	2	Q91BB5_NPVST Q5RKY4 MOUSE	Q91bb5 spodoptera
40	<b>T</b> /	±3.3	244	2	A2VVI4-MOOSE	Q5rky4 mus musculu

RESULT 1 Q8ISB3\_9NEOP ID Q8ISB3\_9NEOP PRELIMINARY; PRT; 507 AA.

```
AC
     Q8ISB3;
DT
     01-MAR-2003 (TrEMBLrel. 23, Created)
     01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DT
DΤ
     01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DE
     Fibroin (Fragment).
OS
     Antheraea mylitta.
     Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC
OC
     Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Bombycoidea;
OC
     Saturniidae; Saturniinae; Saturniini; Antheraea.
OX
     NCBI TaxID=34739;
RN
     [1]
RΡ
     NUCLEOTIDE SEQUENCE.
RA
     Datta A., Ghosh A.K., Kundu S.C.;
     "Differential expression of the fibroin gene in developmental stages
RТ
RT
     of silkworm, Antheraea mylitta (Saturniidae).";
RL
     Comp. Biochem. Physiol. B, Comp. Biochem. 129:197-204(2001).
RN
     [2]
RP
     NUCLEOTIDE SEQUENCE.
RA
     Datta A., Ghosh A.K., Kundu S.C.;
     Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
RĿ
DR
     EMBL; AY136274; AAN28165.1; -; Genomic DNA.
FT
     NON TER
                507
                       507
SO
     SEQUENCE
               507 AA; 45401 MW; C4FF5F3937268386 CRC64;
  Query Match
                         100.0%; Score 108; DB 2; Length 507;
  Best Local Similarity
                         100.0%; Pred. No. 4.2e-07;
          20; Conservative 0; Mismatches 0; Indels
                                                               0; Gaps
                                                                            0;
QУ
           1 VETIVLEEDPYGHEDIYEED 20
              Db
          60 VETIVLEEDPYGHEDIYEED 79
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Search completed: December 16, 2005, 23:52:14 Job time: 129.857 secs

# GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:08:17; Search time 81.25 Seconds

(without alignments)

70.301 Million cell updates/sec

Title: US-10-789-494B-8

Perfect score: 72

Sequence: 1 DDGFVLDGGYDSE 13

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A Geneseq 21:\*

1: geneseqp1980s:\*

2: geneseqp1990s:\*

3: geneseqp1990s:\*

4: geneseqp2001s:\*

5: geneseqp2002s:\*

6: geneseqp2003as:\*

7: geneseqp2003bs:\*

8: geneseqp2004s:\*

9: geneseqp2005s:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	% Query Match	Length	DB	ID	Description
1	72	100.0	13	8	ADU51212	Adu51212 Silkworm
2	72	100.0	13	8	ADU51238	Adu51238 Gut silkw
3	72	100.0	28	8	ADU51203	Adu51203 Gut silkw
4	72	100.0	2655	7	ADO59401	Ado59401 Antheraea
5	45	62.5	138	3	AAG19475	Aag19475 Arabidops
6	45	62.5	138	3	AAG42768	Aag42768 Arabidops
7	45	62.5	157	3	AAG19474	Aag19474 Arabidops
8	45	62.5	157	3	AAG42767	Aag42767 Arabidops

9	45	62.5	173	3	AAG42766	72012766	Arabidops
10	45	62.5	173	3	AAG19473		Arabidops
11	42	58.3	194	6	ABP75555		Human sec
12	42	58.3	309	8	ADS16685		Bartonell
13	42	58.3	344	8	ADT59554		Plant pol
14	42	58.3	350	3	AAG27315		Arabidops
15	42	58.3	358	3	AAG27509		Arabidops
16	42	58.3	647	3	AAG37772		Arabidops
17	42	58.3	647	3	AAG20910		Arabidops
18	42	58.3	853	8	ADS24819		Bacterial
19	41	56.9	252	8	ADS42066		Bacterial
20	41	56.9	360	8	ADI39309		S. hygros
21	41	56.9	499	9	ADW17813		Pinus rad
22	41	56.9	499	9	ADW18484		Pinus rad
23	41	56.9	508	9	ADW17814		Pinus rad
24	41	56.9	632	2	AAY36992		Protein i
25	41	56.9	857	6	ABU40019		Protein e
26	40.5	56.2	929	8	ADH74699		Rice blas
27	40	55.6	53	4	ABG24441		Novel hum
28	40	55.6	72	5	ABP06134		Human ORF
29	40	55.6	115	3	AAY66693		Membrane-
30	40	55.6	115	4	AAU29107		Human PRO
31	40	55.6	115	4	AAB65216		Human PRO
32	40	55.6	115	6	ABU58483	Abu58483	Human PRO
33	40	55.6	115	6	ABU88031	Abu88031	Novel hum
34	40	55.6	115	6	ABU84346	Abu84346	Human sec
35	40	55.6	115	6	ABR66220	Abr66220	Human sec
36	40	55.6	115	6	ABR65610	Abr65610	Human sec
37	40	55.6	115	6	ABU99550	Abu99550	Human sec
38	40	55.6	115	6	ABU58031	Abu58031	Human PRO
39	40	55.6	115	6	ABU59109	Abu59109	Novel hum
40	40	55.6	115	6	ABU82621	Abu82621	Human sec
41	40	55.6	115	6	ABU82789	Abu82789	Human PRO
42	40	55.6	115	6	ABU89910		Novel hum
43	40	55.6	115	б	ABR68159	Abr68159	Human sec
44	40	55.6	115	6	ABU60540	Abu60540	Human sec
45	40	55.6	115	6	ABU96212	Abu96212	Novel hum

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RESULT 1
ADU51212
ID
    ADU51212 standard; peptide; 13 AA.
XX
AC
    ADU51212;
XX
    24-FEB-2005 (first entry)
DT
XX
DE
     Silkworm fibroin-derived fibroblast proliferation peptide 9.
XX
    vulnerary; cell proliferation; wound healing; cell adhesion; cosmetics;
KW
KW
     cell culture; fibroin.
XX
OS
    Bombycoidea.
OS
    Synthetic.
```

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XX
PN
     JP2004339189-A.
XX
PD
     02-DEC-2004.
XX
     04-DEC-2003; 2003JP-00406608.
PF
XX
PR
     28-FEB-2003; 2003JP-00055048.
XX
     (DOKU-) DOKURITSU GYOSEI HOJIN NOGYO SEIBUTSU SH.
PΑ
     (TSUB/) TSUBOUCHI K.
PA
XX
DR
     WPI; 2004-827614/82.
XX
     New peptide having excellent cell growth promoting activity, for use as a
PT
PT
     cell growth promoter, cell adhesion agent, wound healing-promoting agent,
PT
     cosmetic and cell culture base material.
XX
PS
     Claim 2; Page; 27pp; Japanese.
XX
CC
     The invention relates to a novel peptide having excellent cell growth
CC
     promoting activity. The peptide of the invention demonstrates vulnerary
     activity and may be utilised as a cell growth promoter, cell adhesion
CC
CC
     agent, wound healing-promoting agent or cosmetic and cell culture base
CC
     material. The current sequence is that of a silkworm fibroin-derived
CC
     fibroblast proliferation peptide of the invention.
XX
SO
     Sequence 13 AA;
  Query Match
                          100.0%; Score 72; DB 8; Length 13;
  Best Local Similarity
                          100.0%; Pred. No. 4.8e-05;
  Matches
           13; Conservative
                               0; Mismatches
                                                  0; Indels
                                                                 0; Gaps
                                                                             0;
Qу
            1 DDGFVLDGGYDSE 13
              Db
            1 DDGFVLDGGYDSE 13
RESULT 5
AAG19475
ID
    AAG19475 standard; protein; 138 AA.
XX
AC
    AAG19475;
XX
DT
     17-OCT-2000 (first entry)
XX
DE
    Arabidopsis thaliana protein fragment SEQ ID NO: 21292.
XX
KW
     Protein identification; signal transduction pathway; metabolic pathway;
KW
    hybridisation assay; genetic mapping; gene expression control; promoter;
KW
     termination sequence.
XX
OS
    Arabidopsis thaliana.
XX
PN
    EP1033405-A2.
XX
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PD
     06-SEP-2000.
XX
     25-FEB-2000; 2000EP-00301439.
PF
XX
PR
     25-FEB-1999;
                     99US-0121825P.
PR
     05-MAR-1999;
                     99US-0123180P.
     09-MAR-1999;
                     99US-0123548P.
PR
PR
     23-MAR-1999;
                     99US-0125788P.
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  APPLICANT: Desnoyers, Luc
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  APPLICANT: Fong, Sherman
  APPLICANT: Gerber, Hanspeter
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  APPLICANT: Watanabe, Colin K.
  APPLICANT: Williams, P. Mickey
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              Wood, William I.
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- PRIOR FILING DATE: 1998-06-19
- ; PRIOR APPLICATION NUMBER: 60/089948
- : PRIOR FILING DATE: 1998-06-19
- ; PRIOR APPLICATION NUMBER: 60/089952
- ; PRIOR FILING DATE: 1998-06-19
- ; PRIOR APPLICATION NUMBER: 60/090246
- PRIOR FILING DATE: 1998-06-22
- PRIOR APPLICATION NUMBER: 60/090252
- PRIOR FILING DATE: 1998-06-22
- ; PRIOR APPLICATION NUMBER: 60/090254
- PRIOR FILING DATE: 1998-06-22
- ; PRIOR APPLICATION NUMBER: 60/090349
- ; PRIOR FILING DATE: 1998-06-23
- ; PRIOR APPLICATION NUMBER: 60/090355
- ; PRIOR FILING DATE: 1998-06-23
- ; PRIOR APPLICATION NUMBER: 60/090429
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090431
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090435
- ; PRIOR FILING DATE: 1998-06-24
- PRIOR APPLICATION NUMBER: 60/090444
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090445
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090472
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090535
- ; PRIOR FILING DATE: 1998-06-24
- ; PRIOR APPLICATION NUMBER: 60/090540

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PRIOR FILING DATE: 1998-06-24
   PRIOR APPLICATION NUMBER: 60/090542
   PRIOR FILING DATE: 1998-06-24
   PRIOR APPLICATION NUMBER: 60/090557
   PRIOR FILING DATE: 1998-06-24
   PRIOR APPLICATION NUMBER: 60/090676
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090678
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090690
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090694
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090695
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090696
   PRIOR FILING DATE: 1998-06-25
   PRIOR APPLICATION NUMBER: 60/090862
   PRIOR FILING DATE: 1998-06-26
   PRIOR APPLICATION NUMBER: 60/090863
   PRIOR FILING DATE: 1998-06-26
   PRIOR APPLICATION NUMBER: 60/091360
   PRIOR FILING DATE: 1998-07-01
   PRIOR APPLICATION NUMBER: 60/091478
   PRIOR FILING DATE: 1998-07-02
   PRIOR APPLICATION NUMBER: 60/091544
   PRIOR FILING DATE: 1998-07-01
   PRIOR APPLICATION NUMBER: 60/091519
   PRIOR FILING DATE: 1998-07-02
   PRIOR APPLICATION NUMBER: 60/091626
   PRIOR FILING DATE: 1998-07-02
   PRIOR APPLICATION NUMBER: 60/091633
   PRIOR FILING DATE: 1998-07-02
   PRIOR APPLICATION NUMBER: 60/091978
   PRIOR FILING DATE: 1998-07-07
   PRIOR APPLICATION NUMBER: 60/091982
   PRIOR FILING DATE: 1998-07-07
  PRIOR APPLICATION NUMBER: 60/092182
  PRIOR FILING DATE: 1998-07-09
  Query Match
                          55.6%; Score 40; DB 2; Length 115;
  Best Local Similarity
                         54.5%; Pred. No. 25;
  Matches
          6; Conservative 4; Mismatches 1; Indels
                                                                 0; Gaps
                                                                             0:
Qу
            2 DGFVLDGGYDS 12
              : | | : : | | | : |
Db
           81 NGFYINGGYES 91
```

Search completed: December 17, 2005, 00:12:08 Job time: 20.7321 secs

> GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:52:28; Search time 68.7143 Seconds

(without alignments)

79.049 Million cell updates/sec

Title: US-10-789-494B-8

Perfect score: 72

Sequence: 1 DDGFVLDGGYDSE 13

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:\*

1: /cgn2\_6/ptodata/1/pubpaa/US07\_PUBCOMB.pep:\*

2: /cgn2 6/ptodata/1/pubpaa/US08 PUBCOMB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaa/US09\_PUBCOMB.pep:\*

4: /cgn2 6/ptodata/1/pubpaa/US10A PUBCOMB.pep:\*

5: /cgn2\_6/ptodata/1/pubpaa/US10B\_PUBCOMB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaa/US11\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		8				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	72	100.0	13	 5	TIC 10 700 404D 0	
_				_	US-10-789-494B-8	Sequence 8, Appli
2	72	100.0	13	5	US-10-789-494B-68	Sequence 68, Appl
3	72	100.0	28	5	US-10-789-494B-55	Sequence 55, Appl
4	46	63.9	166	4	US-10-424-599-206658	Sequence 206658,
5	43	59.7	173	4	US-10-424-599-265404	Sequence 265404,
6	43	59.7	478	4	US-10-156-761-10964	Sequence 10964, A
7	42	58.3	174	4	US-10-767-701-34455	Sequence 34455, A
8	42	58.3	174	4	US-10-425-115-357755	Sequence 357755,
9	42	58.3	174	4	US-10-425-115-357760	Sequence 357760,
10	42	58.3	296	4	US-10-767-701-38933	Sequence 38933, A
11	42	58.3	344	5	US-10-739-930-9631	Sequence 9631, Ap
12	42	58.3	853	4	US-10-369-493-13852	Sequence 13852, A
13	42	58.3	3649	5	US-10-732-923-20588	Sequence 20588, A
14	41	56.9	86	4	US-10-156-761-9910	Sequence 9910, Ap
15 .	41	56.9	91	4	US-10-424-599-188864	Sequence 188864,
16	41	56.9	252	4	US-10-369-493-20496	Sequence 20496, A

```
17
        41 56.9 342 4 US-10-437-963-117472
                                                          Sequence 117472,
18
        41 56.9 360 4 US-10-461-194-151
                                                          Sequence 151, App
        41 56.9 819 5 US-10-503-135-116
19
                                                          Sequence 116, App
       41 56.9 857 4 US-10-282-122A-67943
20
                                                          Sequence 67943, A
      40.5 56.2 236 4 US-10-425-115-278601
21
                                                          Sequence 278601,
        0.5 56.2 929 4 US-10-436-323-3
40 55.6 53 5 US-10-450-763-54
      40.5
22
                                                          Sequence 3, Appli
23
                     53 5 US-10-450-763-54800
                                                          Sequence 54800, A
24
        40 55.6 109 4 US-10-424-599-242651
                                                          Sequence 242651,
25
        40 55.6 111 4 US-10-767-701-38775
                                                          Sequence 38775, A
        40 55.6 115 3 US-09-989-722-227
26
                                                          Sequence 227, App
       40 55.6 115 3 US-09-989-723-227
27
                                                          Sequence 227, App
       40 55.6 115 3 US-09-989-727-227
40 55.6 115 3 US-09-989-727-227
40 55.6 115 3 US-09-989-731-227
40 55.6 115 3 US-09-989-732-227
28
                                                          Sequence 227, App
29
                                                          Sequence 227, App
30
                                                          Sequence 227, App
31
                                                          Sequence 227, App
       40 55.6 115 3 US-09-991-073-227
                                                          Sequence 227, App
32
      40 55.6 115 3 US-09-990-442-227
33
                                                          Sequence 227, App
       40 55.6 115 3 US-09-991-163-227
34
                                                          Sequence 227, App
       40 55.6 115 3 US-09-993-604-227
35
                                                          Sequence 227, App
36
       40 55.6 115 3 US-09-990-456-227
                                                          Sequence 227, App
37
       40 55.6 115 3 US-09-989-721-227
                                                          Sequence 227, App
38
       40 55.6 115 3 US-09-992-598-227
                                                          Sequence 227, App
      40 55.6 115 3 US-09-989-293A-227
39
                                                          Sequence 227, App
       40 55.6 115 3 US-09-989-735-227
40
                                                          Sequence 227, App
       40 55.6 115 3 US-09-989-735-227

40 55.6 115 3 US-09-991-181-227

40 55.6 115 3 US-09-989-730-227

40 55.6 115 3 US-09-980-436-227
41
                                                          Sequence 227, App
42
                                                          Sequence 227, App
43
                                                          Sequence 227, App
44
                                                          Sequence 227, App
       40 55.6 115 3 US-09-993-687-227
45
                                                          Sequence 227, App
```

```
RESULT 1
US-10-789-494B-8
; Sequence 8, Application US/10789494B
; Publication No. US20050143296A1
; GENERAL INFORMATION:
  APPLICANT: TSUBOUCHI, Kozo
  APPLICANT: YAMADA, Hiromi
  TITLE OF INVENTION: EXTRACTION AND UTILIZATION OF CELL
  TITLE OF INVENTION: GROWTH-PROMOTING PEPTIDES FROM SILK PROTEIN
  FILE REFERENCE: OPS 635
  CURRENT APPLICATION NUMBER: US/10/789,494B
   CURRENT FILING DATE: 2004-02-27
   PRIOR APPLICATION NUMBER: JP 2003-55048
  PRIOR FILING DATE: 2003-02-28
  NUMBER OF SEQ ID NOS: 85
; SEQ ID NO 8
   LENGTH: 13
    TYPE: PRT
    ORGANISM: Antheraea yamamai
US-10-789-494B-8
  Query Match
                         100.0%; Score 72; DB 5; Length 13;
  Best Local Similarity
                         100.0%; Pred. No. 4.4e-05;
```

```
Matches 13; Conservative
                              0; Mismatches 0; Indels 0; Gaps
                                                                          0;
           1 DDGFVLDGGYDSE 13
QУ
             Db
           1 DDGFVLDGGYDSE 13
RESULT 4
US-10-424-599-206658
; Sequence 206658, Application US/10424599
; Publication No. US20040031072A1
: GENERAL INFORMATION:
; APPLICANT: La Rosa Thomas J
; APPLICANT: Kovalic David K
; APPLICANT: Zhou Yihua
  APPLICANT: Cao Yongwei
  TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated
With
  TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
  FILE REFERENCE: 38-21(53223)B
  CURRENT APPLICATION NUMBER: US/10/424,599
  CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO 206658
   LENGTH: 166
   TYPE: PRT
   ORGANISM: Glycine max
   FEATURE:
   OTHER INFORMATION: Clone ID: PAT MRT3847 2863C.1.pep
US-10-424-599-206658
  Query Match
                         63.9%; Score 46; DB 4; Length 166;
  Best Local Similarity 61.5%; Pred. No. 13;
 Matches
          8; Conservative 3; Mismatches 2; Indels
                                                               0; Gaps
                                                                          0;
Qу
           1 DDGFVLDGGYDSE 13
             111 | :||::||
         125 DDGVVEEGGFESE 137
Db
Search completed: December 17, 2005, 00:17:34
Job time : 69.7143 secs
                           GenCore version 5.1.6
                 Copyright (c) 1993 - 2005 Compugen Ltd.
OM protein - protein search, using sw model
Run on:
               December 16, 2005, 23:53:24; Search time 3.48214 Seconds
                                         (without alignments)
                                         25.151 Million cell updates/sec
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Title: US-10-789-494B-8

Perfect score: 72

Sequence: 1 DDGFVLDGGYDSE 13

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 51470 seqs, 6736768 residues

Total number of hits satisfying chosen parameters: 51470

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published\_Applications\_AA\_New:\*

1: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep:\*

2: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep:\*

3: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep:\*

4: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep:\*
5: /cgn2\_6/ptodata/1/pubpaa/PCT\_NEW\_PUB.pep:\*

6: /cgn2\_6/ptodata/1/pubpaa/US10 NEW PUB.pep:\*

7: /cgn2 6/ptodata/1/pubpaa/US11 NEW PUB.pep:\*

8: /cgn2 6/ptodata/1/pubpaa/US60 NEW PUB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

		ક				
Result		Query				
No.	Score	Match	Length	DB	ID	Description
1	40	55.6	473	 6	US-10-467-657-486	Coguence 406 A
2	38	52.8	816	7	US-11-090-439-48	Sequence 486, App
3	37		95	-		Sequence 48, Appl
		51.4		6	US-10-467-657-8782	Sequence 8782, Ap
4	35	48.6	88	7	US-11-053-076-179	Sequence 179, App
5	35	48.6	94	7	US-11-053-076-184	Sequence 184, App
6	35	48.6	348	6	US-10-878-556A-111	Sequence 111, App
7	35	48.6	713	6	US-10-467-657-1012	Sequence 1012, Ap
8	35	48.6	713	7	US-11-190-799-2	Sequence 2, Appli
9	35	48.6	713	7	US-11-190-799-4	Sequence 4, Appli
10	35	48.6	1267	7	US-11-109-156-35	Sequence 35, Appl
11	34	47.2	192	6	US-10-467-657-6808	Sequence 6808, Ap
12	- 34	47.2	376	7	US-11-055-822-152	Sequence 152, App
13	34	47.2	507	6	US-10-467-657-1612	Sequence 1612, Ap
14	34	47.2	1044	7	US-11-091-668-2	Sequence 2, Appli
15	34	47.2	1313	7	US-11-091-668-4	Sequence 4, Appli
16	34	47.2	7102	7	US-11-143-980-48	Sequence 48, Appl
17	34	47.2	7968	7	US-11-143-980-49	Sequence 49, Appl
18	33	45.8	124	6	US-10-467-657-3838	Sequence 3838, Ap
19	33	45.8	133	6	US-10-467-657-38	Sequence 38, Appl
20	33	45.8	133	6	US-10-467-657-8452	Sequence 8452, Ap
21	33	45.8	257	6	US-10-467-657-7456	Sequence 7456, Ap
22	33	45.8	282	6	US-10-878-556A-125	Sequence 125, App
_				-	12 10 0,0 33011 123	bequeince 123, App

```
23
       33
            45.8
                    430 6 US-10-793-626-130
                                                       Sequence 130, App
24
       33
            45.8
                    436 7
                            US-11-116-939-9
                                                       Sequence 9, Appli
25
       33
            45.8
                    466 6
                            US-10-467-657-2360
                                                       Sequence 2360, Ap
26
            45.8
       33
                    471 6
                            US-10-995-561-901
                                                       Sequence 901, App
27
       33
            45.8
                    678 7
                                                       Sequence 34, Appl
                            US-11-102-240-34
28
       33
            45.8
                    782 6
                            US-10-821-234-1592
                                                       Sequence 1592, Ap
29
       33
            45.8
                    824 7
                            US-11-116-939-11
                                                       Sequence 11, Appl
30
     32.5
            45.1
                    423 6
                            US-10-467-962B-85
                                                       Sequence 85, Appl
31
       32
            44.4
                    35 6
                            US-10-467-657-7098
                                                       Sequence 7098, Ap
32
       32
            44.4
                     35 6
                            US-10-467-657-8030
                                                       Sequence 8030, Ap
                     78 7
33
       32
            44.4
                            US-11-000-463-469
                                                       Sequence 469, App
                     78 7
34
       32
            44.4
                            US-11-000-463-941
                                                       Sequence 941, App
35
       32
            44.4
                    125 6
                            US-10-467-657-5290
                                                       Sequence 5290, Ap
36
       32
            44.4
                            US-10-467-657-7322
                    155 6
                                                       Sequence 7322, Ap
37
       32
            44.4
                    158 6
                            US-10-467-657-7326
                                                       Sequence 7326, Ap
38
       32
            44.4
                    227 6
                            US-10-467-657-970
                                                       Sequence 970, App
39
       32
            44.4
                    263 6
                            US-10-467-657-284
                                                       Sequence 284, App
                    263 6
40
       32
            44.4
                            US-10-467-657-5298
                                                       Sequence 5298, Ap
                    322 6
41
       32
            44.4
                            US-10-793-626-1912
                                                       Sequence 1912, Ap
42
       32
            44.4
                    334 7
                            US-11-055-822-24
                                                       Sequence 24, Appl
43
       32
            44.4
                    348 7
                            US-11-102-497-3
                                                       Sequence 3, Appli
44
       32
            44.4
                    348 7
                                                       Sequence 11, Appl
                            US-11-102-497-11
45
       32
            44.4
                    360 6 US-10-467-657-5376
                                                       Sequence 5376, Ap
```

```
RESULT 1
US-10-467-657-486
; Sequence 486, Application US/10467657
; Publication No. US20050260581A1
; GENERAL INFORMATION:
  APPLICANT: CHIRON SpA
  APPLICANT: FONTANA Maria Rita
  APPLICANT: PIZZA Mariagrazia
  APPLICANT: MASIGNANI Vega
  APPLICANT: MONACI Elisabetta
   TITLE OF INVENTION: GONOCOCCAL PROTEINS AND NUCLEIC ACIDS
   FILE REFERENCE:
   CURRENT APPLICATION NUMBER: US/10/467,657
   CURRENT FILING DATE: 2003-08-11
  PRIOR APPLICATION NUMBER: GB-0103424.8
   PRIOR FILING DATE: 2001-02-12
  NUMBER OF SEQ ID NOS: 9218
  SOFTWARE: SegWin99, version 1.04
; SEO ID NO 486
   LENGTH: 473
    TYPE: PRT
    ORGANISM: Neisseria gonorrhoeae
US-10-467-657-486
                          55.6%; Score 40; DB 6; Length 473;
  Query Match
                                  Pred. No. 9.9;
  Best Local Similarity
                          77.8%;
            7; Conservative
                               0; Mismatches
                                                  2; Indels
                                                                 0;
                                                                    Gaps
                                                                             0;
```

Qу

1 DDGFVLDGG 9

Db 417 DDGFCADGG 425

Search completed: December 17, 2005, 00:17:55

Job time : 4.48214 secs

GenCore version 5.1.6

Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 16, 2005, 23:33:32; Search time 13.4643 Seconds

(without alignments)

92.899 Million cell updates/sec

Title: US-10-789-494B-8

Perfect score: 72

Sequence: 1 DDGFVLDGGYDSE 13

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR\_80:\*

1: pir1:\* 2: pir2:\*

3: pir3:\*

4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB	ID	Description
1	72	100.0	2639	2	T31328	fibroin - Chinese
2	45	62.5	173	2	F84630	hypothetical prote
3	44	61.1	546	2	A69484	hypothetical prote
4	44	61.1	938	2	AF1772	internalin-like pr
5	43	59.7	657	2	B84791	hypothetical prote
6	42	58.3	223	2	D84233	hypothetical prote
7	42	58.3	249	2	G87105	probable amidotran

8	42	58.3	867	2	G69485	DNA-directed RNA p
9	41	56.9	819	2	C71544	leucine-tRNA ligas
10	41	56.9	1196	2	A29130	beta-amylase (EC 3
11	40	55.6	42	2	F81852	hypothetical prote
12	40	55.6	520	2	I51556	recombination acti
13	40	55.6	706	2	S53035	probable lysophosp
14	39	54.2	217	2	G85356	hypothetical prote
15	39	54.2	329	1	G69210	conserved hypothet
16	39	54.2	331	1	C69026	acetylpolyamine am
17	39	54.2	381	2	AG0110	probable exported
18	39	54.2	482	2	A34948	cyclin-related cel
19	39	54.2	482	2	S01153	cell division cont
20	39	54.2	499	2	AI1107	internalin E [impo
21	39	54.2	528	2	S42510	Rag-2 protein - ch
22	39	54.2	686	2	S43562	K08E5.3 protein -
23	39	54.2	813	2	G96494	protein F7F22.4 [i
24	39	54.2	855	2	A53296	DNA mismatch repai
25	39	54.2	889	1	S47162	DNA-directed RNA p
26	39	54.2	938	2	A56731	chromatin assembly
27	38	52.8	99	2	T09998	12-oxophytodienoat
28	38	52.8	211	2	E87632	conserved hypothet
29	38	52.8	229	2	AC3419	transcription regu
30	38	52.8	261	2	G87535	regulatory protein
31	38	52.8	284	2	AE3368	probable thiosulfa
32	38	52.8	292	2	E90180	conserved hypothet
33	38	52.8	337	2	AB3440	acetylspermidine d
34	38	52.8	360	1	S59311	alcohol dehydrogen
35	38	52.8	407	2	T40582	hypothetical prote
36	38	52.8	428	2	G81362	3-phosphoshikimate
37	38	52.8	428	2	JC5338	3-phosphoshikimate
38	38	52.8	551	2	C89134	protein F25G6.6 [i
39	38	52.8	694	2	S10632	replication initia
40	38	52.8	820	2	A86510	leucyl tRNA synthe
41	38	52.8	820	2	C72113	leucine-tRNA ligas
42	38	52.8	821	2	AB1126	internalin, peptid
43	38	52.8	970	2	E70533	probable sulfatase
44	38	52.8	1070	2	AI0484	probable autotrans
45	38	52.8	5069	2	T17464	rifamycin polyketi

# RESULT 1 T31328

fibroin - Chinese oak silkmoth

C; Species: Antheraea pernyi (Chinese oak silkmoth)

C; Date: 22-Oct-1999 #sequence\_revision 22-Oct-1999 #text change 09-Jul-2004

C; Accession: T31328

R; Sezutsu, H.; Tamura, T.; Yukuhiro, K.

submitted to the EMBL Data Library, August 1998

A; Description: Characterization of the full length fibroin gene of a wild

silkworm, Antheraea pernyi. A;Reference number: Z20995

A; Accession: T31328

A; Status: preliminary; translated from GB/EMBL/DDBJ

A; Molecule type: DNA

```
A; Residues: 1-2639 <SEZ>
A; Cross-references: UNIPROT: 076786; UNIPARC: UPI0000078D8E; EMBL: AF083334;
NID:g3450882; PID:g3450883; PIDN:AAC32606.1
C; Genetics:
A; Introns: 14/3
  Query Match
                          100.0%; Score 72; DB 2; Length 2639;
  Best Local Similarity 100.0%; Pred. No. 0.0019;
           13; Conservative 0; Mismatches
                                                  0; Indels 0; Gaps
                                                                             0:
          1 DDGFVLDGGYDSE 13
Qу
              Db
         2579 DDGFVLDGGYDSE 2591
RESULT 2
F84630
hypothetical protein At2g23940 [imported] - Arabidopsis thaliana
C; Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence revision 02-Feb-2001 #text change 09-Jul-2004
C; Accession: F84630
R; Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.;
Fujii, C.Y.; Mason, T.M.; Bowman, C.L.; Barnstead, M.E.; Feldblyum, T.V.; Buell,
C.R.; Ketchum, K.A.; Lee, J.J.; Ronning, C.M.; Koo, H.; Moffat, K.S.; Cronin,
L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.J.; Gill, J.E.; Adams,
M.D.; Carrera, A.J.; Creasy, T.H.; Goodman, H.M.; Somerville, C.R.; Copenhaver,
G.P.; Preuss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser,
C.M.; Venter, J.C.
Nature 402, 761-768, 1999
A; Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis
thaliana.
A; Reference number: A84420; MUID: 20083487; PMID: 10617197
A; Accession: F84630
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 1-173 <STO>
A; Cross-references: UNIPROT: 082222; UNIPARC: UPI00000A5B51; GB: AE002093;
NID:g3738323; PIDN:AAC63664.1; GSPDB:GN00139
C; Genetics:
A; Gene: At2q23940
A; Map position: 2
  Query Match
                          62.5%; Score 45; DB 2; Length 173;
  Best Local Similarity 63.6%; Pred. No. 3;
  Matches
            7; Conservative
                               3; Mismatches
                                                   1; Indels
                                                                 0; Gaps
                                                                             0;
            1 DDGFVLDGGYD 11
Qу
              111 :: | | | : |
Db
           75 DDGELIDGGFD 85
Search completed: December 16, 2005, 23:53:17
Job time : 14.4643 secs
```

GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd. OM protein - protein search, using sw model

Run on: December 16, 2005, 23:33:02; Search time 83.1071 Seconds

(without alignments)

110.362 Million cell updates/sec

Title: US-10-789-494B-8

Perfect score: 72

Sequence: 1 DDGFVLDGGYDSE 13

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt 05.80:\*

1: uniprot\_sprot:\*
2: uniprot\_trembl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Res	ult		% Query					
	No.	Score	Match	Length	DB	ID	Descri	otion
	1	72	100.0	151	2	Q95VQ0_ANTYA	Q95vq0	antheraea y
	2	72	100.0	436	2	Q967T8_ANTPE	Q967t8	antheraea p
	3	72	100.0	2639	2	076786_ANTPE	076786	antheraea p
	4	72	100.0	2655	2	Q964F4_ANTYA	Q964f4	antheraea y
	5	71	98.6	421	2	Q93119_ANTPE	Q93119	antheraea p
	6	49	68.1	685	2	Q7VDT2_PROMA	Q7vdt2	prochloroco
	7	47	65.3	425	2	Q6D6K1_ERWCT		erwinia car
	8	47	65.3	428	2	Q6D355_ERWCT	Q6d355	erwinia car
	9	46	63.9	910	2	Q6B390_9PROT	Q6b390	uncultured
	10	45	62.5	173	2	Q8GYK4_ARATH	Q8gyk4	arabidopsis
	11	45	62.5	173	2	Q8LEX3_ARATH		arabidopsis
	12	45	62.5	173	2	082222 ARATH		arabidopsis
	13	44	61.1	392	2	Q4LYV7_9BURK		burkholderi
	14	44	61.1	458	2	Q5WHT0_BACSK	Q5wht0	bacillus cl
	15	44	61.1	546	2	028405_ARCFU	028405	archaeoglob
	16	44	61.1	938	2	Q927R4_LISIN		listeria in
	17	43	59.7	56	2	Q5VQN1_ORYSA		oryza sativ
	18	43	59.7	238	2	Q5TPW5_ANOGA		anopheles g
	19	43	59.7	267	2	Q7QLB3_ANOGA		anopheles g

20	43	59.7	390	2	Q6T1G6_NEOFS	Q6t1g6	neoceratodu
21	43	59.7	478	2	Q82HT1_STRAW	Q82ht1	streptomyce
22	43	59.7	490	2	Q90XH9_9SARC	Q90xh9	protopterus
23	43	59.7	601	2	Q7Q2X2_ANOGA	Q7q2x2	anopheles g
24	43	59.7	657	2	Q9ZUT5_ARATH	Q9zut5	arabidopsis
25	43	59.7	729	2	Q54RD7_DICDI	Q54rd7	dictyosteli
26	43	59.7	1228	2	Q4FYU1_LEIMA	Q4fyu1	leishmania
27	42	58.3	223	2	Q9HRC6_HALSA	Q9hrc6	halobacteri
28	42	58.3	249	2	Q9CBU9_MYCLE	Q9cbu9	mycobacteri
29	42	58.3	364	2	Q5SPG9_BRARE	Q5spg9	brachydanio
30	42	58.3	390	2	Q6T1G5_LEPPA	Q6t1g5	lepidosiren
31	42	58.3	421	2	Q90XI2_9CHON	Q90xi2	triakis sp.
32	42	58.3	459	2	Q5L207_GEOKA	Q51207	geobacillus
33	42	58.3	486	2	Q90XI3_CHIPU	Q90xi3	chiloscylli
34	42	58.3	510	2	Q5PEW7_SALPA	Q5pew7	salmonella
35 <sup>.</sup>	42	58.3	511	1	GUAA_MYCPE	Q8ews9	mycoplasma
36	42	58.3	520	2	Q89YV0_BACTN	Q89yv0	bacteroides
37	42	58.3	586	2	Q98J75_RHILO	Q98j75	rhizobium l
38	42	58.3	626	2	Q8I1Z9_PLAF7	Q8i1z9	plasmodium
39	42	58.3	647	2	Q8LDD0_ARATH	Q81dd0	arabidopsis
40	42	58.3	647	2	Q9FM96_ARATH	Q9fm96	arabidopsis
41	42	58.3	823	2	Q723P8_LISMF	Q723p8	listeria mo
42	42	58.3	866	2	Q7S7S5_NEUCR	Q7s7s5	neurospora
43	42	58.3	867	2	028391_ARCFU	028391	archaeoglob
44	42	58.3	881	2	Q9C261_NEUCR	Q9c261	neurospora
45	42	58.3	1529	2	Q4SHR3_TETNG	Q4shr3	tetraodon n

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RESULT 1
Q95VQ0 ANTYA
ID
     Q95VQ0 ANTYA PRELIMINARY;
                                    PRT;
                                           151 AA.
AC
     Q95VQ0;
DT
     01-DEC-2001 (TrEMBLrel. 19, Created)
DT
     01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
     01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
DT
DE
     Fibroin heavy chain (Fragment).
GN
     Name=Fib-H;
OS
     Antheraea yamamai (Japanese oak silkmoth).
OC
     Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC
     Neoptera; Endopterygota; Lepidoptera; Glossata; Ditrysia; Bombycoidea;
OC
     Saturniidae; Saturniinae; Saturniini; Antheraea.
OX
     NCBI TaxID=7121;
RN
     [1]
RP
     NUCLEOTIDE SEQUENCE.
RA
     Zurovec M., Yang C., Sehnal F.;
RL
     Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.
RN
    [2]
RP
     NUCLEOTIDE SEQUENCE.
    Fedic R.;
RA
     Submitted (AUG-2001) to the EMBL/GenBank/DDBJ databases.
RL
DR
     EMBL; AF410906; AAL02118.1; -; mRNA.
FT
     NON TER
                   1
                         1
SQ
     SEQUENCE
                151 AA; 13629 MW; 596775A00040475A CRC64;
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Search completed: December 16, 2005, 23:52:17

Job time : 86.1071 secs